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<213> Homo sapiens

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<213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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<210> 1327

<211> 1523

<212> DNA

<213> Homo sapiens

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<210> 1328

<211> 741

<212> DNA

<213> Homo sapiens

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<210> 1325

<211> 1105

<212> DNA

<213> Homo sapiens

<400> 1325

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<210> 1326

<211> 1646

<212> DNA

<213> Homo sapiens

<400> 1326

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<212> DNA

<213> Homo sapiens

<400> 1322

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<210> 1323

<211> 426

<212> DNA

<213> Homo sapiens

<400> 1323

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<211> 1787

<212> DNA

<213> Homo sapiens

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<210> 1319
 <211> 654
 <212> DNA
 <213> Homo sapiens

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<210> 1320
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 <212> DNA
 <213> Homo sapiens

<400> 1320
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 <213> Homo sapiens

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<210> 1322
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<400> 1317

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<210> 1318

<211> 879

<212> DNA

<213> Homo sapiens

<400> 1318

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<210> 1315
 <211> 1587
 <212> DNA
 <213> Homo sapiens

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<210> 1316
 <211> 572
 <212> DNA
 <213> Homo sapiens

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<210> 1317
 <211> 1956
 <212> DNA
 <213> Homo sapiens

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<210> 1314
<211> 1890
<212> DNA
<213> Homo sapiens

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<222> (1)...(1890)
<223> n = a,t,c or g

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cagagtgcac cctcgtgcca agcttggcgt 1898

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<210> 1312
 <211> 669
 <212> DNA
 <213> Homo sapiens

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<210> 1313
 <211> 1898
 <212> DNA
 <213> Homo sapiens

<400> 1313
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 tacattgagt cccaaatatt tccattagct ttacaagggc ttcagattct tttctgccat 840
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<211> 453
 <212> DNA
 <213> Homo sapiens

<400> 1308
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<210> 1309
 <211> 421
 <212> DNA
 <213> Homo sapiens

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 <222> (1)...(421)
 <223> n = a,t,c or g

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<210> 1310
 <211> 442
 <212> DNA
 <213> Homo sapiens

<400> 1310
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<210> 1311
 <211> 912
 <212> DNA
 <213> Homo sapiens


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<210> 1305
<211> 507
<212> DNA
<213> Homo sapiens

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<212> DNA
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<210> 1307
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<212> DNA
<213> Homo sapiens

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<210> 1308

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 <213> Homo sapiens

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 <213> Homo sapiens

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<211> 842

<212> DNA

<213> Homo sapiens

<400> 1302

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<210> 1299

<211> 393

<212> DNA

<213> Homo sapiens

<400> 1299

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<210> 1300

<211> 391

<212> DNA

<213> Homo sapiens

<400> 1300

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agccctgtgg	gtattctatg	ggtatatgaa	agaaacaaaa	cgagctgtga	tatttatgat	300
aaacttagcc	attgctgact	tactacaagt	tctttccttg	ccactgagga	tcttctacta	360
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<210> 1301

<211> 7545

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (7545)

<223> n = a,t,c or g

<400> 1301

cctggcataa	gggttggaat	tacaagtcag	acagggtgga	gcagcaatct	tcaagaaaat	60
tgtctctaat	tggccttcat	tagctctcac	ggcactgaaa	aacaactcca	atgcatgcct	120
atggaaggga	gaggcagagc	ctctagctcc	atttcagacc	tgcaaggaaa	gggctttgag	180
aagggaactg	gggagaagca	cgttccagg	gtgggttcag	ctcggcactc	gccacaggcc	240
tccgcagggt	gctctccttg	gcagcgaggc	aaggcgcaaa	cccgtggct	tggaagccct	300
gacctggca	ggaagcgacg	cgggggttct	ccgcaagaag	aaggcgccct	ccgggtgtcg	360
gccgcagcca	ggctactgtg	ctccggggca	aaccgctgca	aagtcctagt	gaggcagaac	420
tcgaccccc	acactcagca	gcctgcccgc	cacccatcca	cacccccgct	tcgccccctg	480

<400> 1295
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 tattggagtt cctgaggcag gaaagagtta tggtaggttg agaatacagc ctacagctag 180
 cccctcttcc cagtggaggt catggctact gggcatcagg agttgcgctc ctacgtcctt 240
 tcagcttagg aaaggcatcc cagttgagga aaggaaagttt ccttttgata gactcaaaga 300
 gggcgtgcca gttcaggaac tcatcagcct taaacgcaga tcgcaatttg tcgatgttca 360
 ggaacggggt gttaaaggcc tcgggtcgtg acgcataatt ctcaatgggt ctttcttctc 420
 caggaccacc cagggtgggt ccctgggcag agtggagcac caggagggag aggagctcca 480
 cggcaggaag gaccgggatc ttcattggcgt caagtttg 518

<210> 1296
 <211> 551
 <212> DNA
 <213> Homo sapiens

<400> 1296
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 catcgagga gaagtgcgtg gccaggttcc gggagaacat ccaagatgtg ctatctgcgc 120
 tgcocaatcc tgatgactac ttctcctgc gctgggtcca agctcggagc tttgacctgc 180
 agaaatcaga ggacatgctg aggaagcata tggagtccg gaagcaaca gacctggcca 240
 acatccttgc ctggcagccc ccagaggtgg tcaggtctga caacgctaac ggcataatgc 300
 gccacgacgg tgagggcagc cctgtctggt accacattgt gggaaagccag gaccccaaag 360
 gcctcttgcct ctcagcctcc aaacaggagt tgctcaggga cagcttcagg agctgcgagc 420
 tgctcctgcg ggagtgtgag ctgcagagtc agaagctggg gaagaggggt gagaaaatca 480
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 ttctccagga g 551

<210> 1297
 <211> 410
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)... (410)
 <223> n = a,t,c or g

<400> 1297
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 gttgtggtc cgtgtgctct gaccagggt gggccaaga cctctgtcag gagacctgct 120
 gccgccccag ctgctgtgag accacctgct gcaggaccac ctgctgccgc cccagctggt 180
 gtgtatccag ctgctgcagg cccagtgct gccagtctgt gtgtgccaa cccacttggt 240
 ccgccccag ctgctgtcag accacotggt gcaggaccac ctgctaccgc cccagctggt 300
 gtgtgtccag ctgctgcagg cccagtgct gccagcctgt gtgtgccaa cccacctgct 360
 gtgccccag ctgctgtgag acgacctgct gccacctan gtgtgcac 410

<210> 1298
 <211> 453
 <212> DNA
 <213> Homo sapiens

<400> 1298
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gccgagtcctg aggaagaaga ggcgtgtgt

749

<210> 1293
 <211> 989
 <212> DNA
 <213> Homo sapiens

<400> 1293
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 cccctcccgc ctggaaaact actacatggt atgcaaggca gatgagaaat ttaatcagct 120
 ggtccatttt cttcgcaatc ataagcagga gaaacacctg gtcttcttca ggtactcctc 180
 tggctctctgt ggtagaggca tcagggtattc agccagaatg tgcagcacct gtgcctgtgt 240
 ggaatactat gggaaggctc tggaagtgtc ggtgaagggc gtgaagatta tgtgcattca 300
 cggaagatg aaatataaac gcaataagat cttcatggag ttccgcaaat tgcaaagtgg 360
 gatttttagtg tgcactgatg tgatggcccg gggaattgat attcctgaag tcaactgggt 420
 tttgcagtat gaccctccca gcaatgcaag tgccttcgtg catcgtgcg gtgcacagc 480
 tcgcatggc caccggggca gcgctctggt gttcctcctg cccatggaag agtcatacat 540
 caatttcctt gcaattaacc aaaaatgccc cctgcaggag atgaagcccc agagaaacac 600
 agcggaacct ctgccaaaac tcaagtcctt ggccctggct gacagagctg tgtttgaaaa 660
 ggcatgaaa gcttttgtgt catatgtcca agcttatgca aagcatgaat gcaacctgat 720
 tttcagatta aaggatcttg attttgccag ccttgctcga ggttttgccc tgetgaggat 780
 gcccaagatg ccagaattga gaggggaagca gtttccagat tttgtgcccg tggacgttaa 840
 taccgacacg attccattta aagataaaat cagagaaaag cagaggcaga aactcctgga 900
 gcaacaaaaga agagagaaaa cagaaaatga agggagaaga aaattcataa aaaataaagc 960
 ttggtcaaag cagaaggcca aaaaaaaaaa 989

<210> 1294
 <211> 1042
 <212> DNA
 <213> Homo sapiens

<400> 1294
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 actggagact attttcttct ctgtgacgcc gaggggcat ggggcatcat tctggagtcc 180
 ctggccatcc ttggcatcgt ggtcaccaatt ctgctactct tagcatttct cttoctcatg 240
 cgaaagatcc aagactgcag ccagtggaaat gtccctccca cccagctcct cttcctcctg 300
 agtgtcctgg ggctcttcgg actcgtcttt gccttcatca tcgagctcaa tcaacaaact 360
 gccccgtac gctactttct ctttgggggt ctctttgtc tctgtttctc atgcctctta 420
 gctcatgcct ccaatctagt gaagctggtt cggggttgtg tctccttctc ctggacgaca 480
 attctgtgca ttgctattgg ttgcagtctg ttgcaaatca ttattgccac tgagtatgtg 540
 actctcatca tgaccagagg tatgatgttt gtgaatatga caccctgccca gctcaatgtg 600
 gaotttgttg taotcctggt ctatgtctc ttctgatgg ccctcacatt cttcgtctcc 660
 aaagccacct tctgtggccc gtgtgagaac tgggaagcagc atggaaggct catctttatc 720
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 ccgagttcc agcgacagcc ccagtgggac gaccggctg tctgcattgc tctggtcacc 840
 aacgcattgg ttttctgct gctgtacatc gtccctgagc tctgcattct ctacagatcg 900
 tgtagacagg agtgcccttt acaaggcaat gcctgccccg tcacagccta ccaacacagc 960
 ttccaagtgg agaaccagga gctctccaga gataaatgga aggtcttact caactcggac 1020
 ttcctatcac acagtgggtc ag 1042

<210> 1295
 <211> 518
 <212> DNA
 <213> Homo sapiens

<222> (1) ... (982)

<223> n = a, t, c or g

<400> 1290

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acacacccag	gcgcgcgcgc	gcgttcccac	tcgcaccacg	caggagtggc	ccccggcatc	120
cctaccctcc	ttccccaccc	ccaccacacc	cgctcaccag	ctcggctact	gctcgtccg	180
gctgcgcgcg	cgccgcgcgc	cgacgccacc	accactgctt	cctctgctgc	ggggccacag	240
ccttgagtgt	cattcaagg	acagcacaac	ctcatccaag	ctctcctacc	tctgcccagc	300
cgtgcctctc	atcctcccca	ttcctcgtcc	acactccatc	caaagaagag	ggaaagcacc	360
gaatagaggg	gggcgaaggc	aaagtctgct	gttcttcccc	ctgggcccc	ttgctcctcc	420
atcctcattc	tctcaccacc	agcccccta	accccaagga	gcccaggaac	tgaggcgact	480
cgccccactg	ccatgtccaa	aagettga	aagaaaagcc	actggactag	caaagtccat	540
gagagtgtca	ttggcaggaa	cccggagggc	cagctgggct	ttgaactgaa	ggggggcgcc	600
gagaatggac	agttccccta	cctgggggag	gtgaagcccg	gcaagggtggc	ctatgagagc	660
ggcagcaaat	tggtgtcgga	ggagctgctg	ctggagggtga	acgagacccc	cgtggcgggg	720
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cggggcgag	ggcaatgaaa	gggtggccgc	gcatgttgaa	gggggtgtgt	tgccgatga	900
tggggtgggg	gccagagagc	acccgcagtg	caagtgaagt	tcgccgggga	ttcgacgaaa	960
tcgtnncccc	ggaattccgg	ac				982

<210> 1291

<211> 591

<212> DNA

<213> Homo sapiens

<400> 1291

aatttctg	tc	cgccggaagc	tcggagcact	caggacgcgc	cgccgcttc	ccccccctcc	60
ctgaccaggg	agcagctcgc	tccaggcgcc	cagccgaggc	ccccagccca	gtgggagcaa		120
gtcatagaga	acaattcgag	agacagagag	acggagcgcg	ctttcctgct	cagtcctgaa		180
aagtgaagccg	ctcccggtt	tgcaacctca	agcttcgcag	cagccggcgcc	ggcggtgccc		240
gggaaggagg	caggtgcagg	tgaggagggg	aggcggtct	gggctccgcg	cctgggtctt		300
ggccatggcc	tcggctctgg	ggagcggcag	agggtctgga	gggctgagca	gtcaactcaa		360
atgcaagtcc	aagaggagga	ggaggcgag	gtccaagcgg	aaagataaag	taagcatatt		420
gtcaaccttc	ctcgctcctt	tcaagcacct	gagtcctggc	atcacaaaca	cggaggatga		480
cgacaccctc	agtaccagca	gcgcggaggt	gaaggagaac	cgcaacgtgg	gcaacctggc		540
cgccgcccga	ccgcccctcg	gggaccgggc	ccggggcgcc	gcgaccgggc	g		591

<210> 1292

<211> 749

<212> DNA

<213> Homo sapiens

<400> 1292

caacgtcgac	gatttctgtc	ggggctgtgg	ggagggcacg	gactgacaga	cggactccgg	60
cggaatgggg	ggtgtggctg	ctccgccagg	gtcccagg	tgaggagagc	gctccgcggc	120
caccgatgcc	cggaccccct	ctgtcttctg	ctagacatgc	tcttctctc	gtttcatgca	180
ggctcttggg	aaagctgggt	ctgctgctgc	ctgattccc	ccgacagacc	ttgggaccgg	240
ggccaacact	ggcagctgga	gatggcggac	acgagatccg	tgacagagac	taggtttgag	300
gcggccgtga	aggtgatcca	gagtttgccg	aagaatggtt	cattccagcc	aacaaatgaa	360
atgatgctta	aattttatag	cttctataag	caggcaactg	aaggaccctg	taaactttca	420
aggcctggat	tttgggatcc	tattggaaga	tataaatggg	atgcttggag	ttcactgggt	480
gatatgacca	aagaggaagc	catgattgca	tatgttgaag	aaatgaaaaa	gattattgaa	540
actatgccaa	tgactgagaa	agttgaagaa	ttgctgcgtg	tcataaggtcc	attttatgaa	600
attgtcgagg	acaaaaagag	tggcaggagt	tctgatataa	cctcagatct	tggtaatgtt	660
ctcacttcta	ctccaaacgc	caaaaccgtt	aatggtaaa	ctgaaagcag	tgacagtgga	720

<400> 1287

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gtccggatgg	ggccttaggg	ccccgccccg	tctagcctgg	cccggcctgc	gcgagccccg	120
caagctctgc	aggctggeta	gcgggcagac	cccagcccca	cgtcctgcta	cccacctaeg	180
aaggatccgg	ggatgggcag	cgccaccogg	cccgtccag	agtcagcatg	ggtctccgtg	240
aggcgggggtg	acgctccaga	atgggagaca	agccaatttg	ggagcagatt	ggatccagct	300
tcattcaaca	ttactaccag	ttatttgata	atgatagaac	ccaactaggc	gcaattttacg	360
taagtttcca	gctctagggc	cagaatggac	cctaggggat	caatttggat	gttggggccag	420
tgtgtccagt	tcacaagttc	tggcagccct	atctggactg	gctacacctc	tgtatctgaa	480
cttttgtcca	cgggacaggg	gtctgacgct	tggcccaagt	aattacctgg	tctatacttt	540
tccttttgtc	aacttccaca	agggtgagaa	tcctgctgtt	ctgggcttgc	cattccatgt	600
ggccagcatt	tgte					614

<210> 1288

<211> 478

<212> DNA

<213> Homo sapiens

<400> 1288

atggaggaag	aagatgagtc	tcgaggaag	acagaggagt	cgggggagga	tcggggcgat	60
ggtccgccag	acagagaccc	caogctttct	ccttctgcct	ttatcctgag	agccatccag	120
caggctgtgg	gaagctccct	gcagggggac	ctgcccgaatg	ataaagatgg	ctctcggtgt	180
catggccttc	gatggcggcg	ctgcgggagt	ccacggteag	agccccgttc	ccaggaatca	240
ggggggcactg	acacggctac	tgtgttgagc	atggccacgg	acagcttcct	cgcagggctg	300
gtgagtgtcc	tggatcccc	ggatacctgg	gttcccagcc	gcctggacct	gcggcctggc	360
gaaagtgagg	acatgctgga	gctgggtggc	gaggtccgaa	tcggggacag	agatcccatc	420
cctctgcctg	tgcccagcct	gctgccccgt	ctcagggcct	ggaggacggg	caaaacgg	478

<210> 1289

<211> 438

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)... (438)

<223> n = a, t, c or g

<400> 1289

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ctccttctca	ctcctcacc	tccagggtag	cggctaccgg	agcgtgcag	ggggctgcgc	120
ctgcctgtct	cgcgccagac	ctgtcggcga	aaggtagttt	atgccaaagt	gacttcattc	180
atacagatga	accaaggatc	gggtagcag	tataaaatta	gaatcaagac	agctgactgc	240
tcagcaggat	gccatcaact	aacagagcag	gcagcctgaa	ggaccctgaa	attgcagagc	300
tcttcttcaa	agaagatcca	gagaagctct	tcacagatct	cagagaaatt	ggccatggaa	360
gctttggagc	agcgtatttt	gcacgagatg	tgcgtaccaa	tgaagtgggtg	gccatcaaga	420
aatgtcttta	tagtgga					438

<210> 1290

<211> 982

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<400> 1284
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 cttcgtgac ttgggtcgta ccccgctcct gctgctgcca ctcgtcattc tgatgccgc 120
 caagtttgtc aggtgtgcct acgtcatcat cctcatggcc atttactggg gcacagaagt 180
 catccctctg gctgtcacct ctctcatgcc tgtcttgctt tcccactct tccagattct 240
 ggactccagg caggtgtgtg tccagtacat gaaggacacc aacatgctgt tccgtggcgg 300
 cctcatcgtg gccgtggctg tggagcgctg gaacctgcac aagaggatcg cctgcgcac 360
 gtcctctctg gtgggggcca agcctgcacg gctgatgctg ggccttatgg gcgtcacagc 420
 cctcctgtcc atgtggatca gtaacacggc aaccacggcc atgatgggtc ccatcgtgga 480
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 ggacaagggc aaggccaagg agctgccag 569

<210> 1285
 <211> 728
 <212> DNA
 <213> Homo sapiens

<400> 1285
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 agttgttccc ctgctagccc agttggcctc tgattttagg agaagccaga agtccagatt 180
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 caactacctt cgagacgggg cgggtgccttt acccgagagc cgcggggaga tcgaggagct 660
 gctagcagaa gccaaagtact acctagtcca aggcctggtg gaagagtgcc aggcggccct 720
 acaagtac 728

<210> 1286
 <211> 574
 <212> DNA
 <213> Homo sapiens

<400> 1286
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 atgggctgct gcaccggacg ctgctcgctc atctgcctct gcgcgctgca gttggtctca 180
 gcattagaga ggcagatctt tgacttcctt ggtttccagt gggcgctat tcttgaaat 240
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 tacataatgg tgtatacagt gtggactgcc ctctgggtca cctggaatgt gttcattatc 360
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 tctgtacatc ggtcatgggt gagagaacat gggcctggtt gtgtcagaag agtgctgcct 480
 cctcagccc atggcatgat ggacgattac acgtacgtct ctgtcacagg ctgcatcgtt 540
 gacttccagt acctggaggt catccacagt gctg 574

<210> 1287
 <211> 614
 <212> DNA
 <213> Homo sapiens

<212> DNA
<213> Homo sapiens

<400> 1282

gtagtgcac	aataattatt	cggggtgata	agcgagcacc	aggagaagtt	gggatagctc	60
cgtcacatctag	gcacatcctc	attggggaac	cctcagcaaa	atataatgg	accgctatta	120
tcagccttgt	tcgaggccca	gggattttgg	gggaggtcac	agtgttctgg	aggatattcc	180
ctccttccgt	gggggaattt	gctgaaacat	caggaaaact	gacaatgcga	gacgaacagt	240
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ccaacatcac	ggtggtggcc	agcgactctc	cctatggccg	atttgccttt	tcacatgagc	420
aacttcgagt	gtcagaagca	cagagggtta	acatcacaa	catccgttcc	agtggagatt	480
ttggccatgt	gcgactctgg	tacaagacga	tgagcgggac	agcgggaagca	ggcttggatt	540
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ttgaaatcct	tgatgatgac	tatcctgaag	gcccagagga	atcttctcta	acaattacaa	660
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atcaacctcc	tgaatatgga	aacatctcca	ttgttcgcat	cataataatg	aaaaatgata	780
acgcagaagg	catcattgaa	tttgaacca	agtatactgc	cttcgaagtg	gaggaagatg	840
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gtacagtcac	ctttcagcat	gggcaaaact	taagttttat	aaatatctcc	atcattgatg	1020
acaatgaaag	tgaattttgag	gagcccatgg	aaattctact	caactggagct	actggaggag	1080
cggctccttgg	gogccaccta	gtgagcagaa	tcataatagc	taagagtgc	tctccctttg	1140
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caatctatcc	tcataagaa	attgaagtgt	aagagacatt	cattattaaa	cttcactctg	1440
tgaaggagga	agctaaatta	gactccagag	ctaaagatgt	tacattaacc	atacaagagt	1500
ttggtgaccc	aatggaggtt	gttcagtttg	ctcctgaaac	tttgtctaag	aagacttatt	1560
cagagcctct	ggctctggaa	gggccctg	tcattacett	ctttgtcaga	agagtcagg	1620
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<210> 1283
<211> 517
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(517)
<223> n = a,t,c or g

<400> 1283

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<210> 1284
<211> 569
<212> DNA
<213> Homo sapiens

<210> 1279
 <211> 435
 <212> DNA
 <213> Homo sapiens

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 gaactggtga ctttagcaga gaagtgagac cctgcagctg agggagcatc atggcagtg 180
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 aggaggtcaa ggaagtgttt gagaacaaag agaaaacgat ggagtctctg aaaggggtacc 360
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 tacccttctt gggggg 435

<210> 1280
 <211> 517
 <212> DNA
 <213> Homo sapiens

<400> 1280
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 aatagaagag gcttgtgaaa tgtataccag agctgcaa atgttcaaga tggctaaaaa 180
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 cttccctcaa cggttaaggtc agtggtggtg tgctttcaag tcctggtaaa aaggaatttt 420
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<210> 1281
 <211> 841
 <212> DNA
 <213> Homo sapiens

<400> 1281
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 aatcatggct cactgcagcc tcaaaatcct ggctcaaga aattctgcag actcagcctt 780
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 a 841

<210> 1282
 <211> 1640

<400> 1276

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<210> 1277

<211> 869

<212> DNA

<213> Homo sapiens

<400> 1277

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<210> 1278

<211> 458

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(458)

<223> n = a,t,c or g

<400> 1278

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<210> 1275
 <211> 415
 <212> DNA
 <213> Homo sapiens

<400> 1275						
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aacaccaagg	ttgaaaagaa	aaagaaggag	aaggttctcg	cacctgttac	aaaaccagtt	300
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<210> 1276
 <211> 595
 <212> DNA
 <213> Homo sapiens

<210> 1273
 <211> 1339
 <212> DNA
 <213> Homo sapiens

<400> 1273

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<210> 1274
 <211> 3750
 <212> DNA
 <213> Homo sapiens

<400> 1274

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<210> 1270
 <211> 588
 <212> DNA
 <213> Homo sapiens

<400> 1270						
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<210> 1271
 <211> 407
 <212> DNA
 <213> Homo sapiens

<400> 1271						
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<210> 1272
 <211> 388
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(388)
 <223> n = a,t,c or g

<400> 1272						
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<400> 1267

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aattttctatg	aagtgggtgt	gactattttc	tgtagtcaat	acagttggga	tatctgatct	960
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aacaaaata						1029

<210> 1268

<211> 403

<212> DNA

<213> Homo sapiens

<400> 1268

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aagaaccaag	gtgagcttag	gcctggcatg	agggtggggg	tgggggaggg	gtggggccat	240
taagctgacg	gggtagacct	tgacttacct	tttctacctg	caaagtcctg	gctgaccagc	300
agggtagtg	ctcagtgccc	tgggtgggtc	catacatggc	catgggtgtcc	ctgacgctat	360
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<210> 1269

<211> 1107

<212> DNA

<213> Homo sapiens

<400> 1269

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tcgctttcgc	ctcctccgag	ccgggocggc	gatggccgca	gctgtgaggc	gagcagaaga	180
atagaaggaa	ggatgatagga	tgtgatgata	gaatttgtga	tagccaagca	acaacttttc	240
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tgacgttgct	ttacaagatc	acattttaca	tgatcttcaa	cttcgaaatc	tttcagttgc	360
agatcattct	aagacacaag	tacaaaagaa	agagaacaaa	tctctaaaaa	gagatacaaa	420
ggcaataata	gatactggac	ttaaaaaaac	tacacagtgc	ccaaaactag	aagactcaga	480
aaaagaatat	gttcttgatc	ccaaaccgcc	gcggttgact	ttggcacaga	agttgggcct	540
cattgggcct	ccaccacctc	cactgtcatc	agatgaatgg	gagaagggtga	aacagcgtc	600
tctcctgcaa	ggggactccg	tgcaaccatg	ccccatctgt	aaagaagaat	tcgagcttcg	660
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cctcattaaa	tagttttgtt	tgtttactaa	ctgggtattct	caagtactaa	agtttgtaca	900
aaaggaatgt	ttctgttcaa	caggccccat	gcggctgtgc	agacaactgg	ggggcttccc	960

tacttaagga gccagacaa tcaaagtaac agctatccac caatgtcaga tccatacatg	420
cctagn tact atgtccatc cattggattt ccatattctc ttggggaagc agcgtgggtca	480
cagctgggn	488

<210> 1264
 <211> 352
 <212> DNA
 <213> Homo sapiens

<400> 1264	
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gaccccattha cgctaaagat gaaaggctgg ggggtggctgg ccctgcttct gggggccctg	180
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cgtegcgcg tccgtcaatt caacatctat gattactaaa aatggagaag ggggtgttgt	300
tactcctatt gtagggcgg caccatatca caatggctga tttatagatt gt	352

<210> 1265
 <211> 542
 <212> DNA
 <213> Homo sapiens

<400> 1265	
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acagatgatt cagcctgaga agctcctggtt ggtcacagtt ggaaagacag ccaactctgca	180
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aggccgagaa ttaatctaca atcaaaaaga aggccacttc cccagggtaa caacagtttc	300
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taagtctgga gcaggcaccg agctgtctgt gcgtgggtgag tacagcgtgg gcttccttag	480
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at	542

<210> 1266
 <211> 457
 <212> DNA
 <213> Homo sapiens

<400> 1266	
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cagagtgttt ataggaaact gattttgtat actttggcta ctttgttcta agttctagtt	180
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gacctaaaaa taatgcatgc catcttcttt tcacagctgt gtgccaacca cgatgcaaac	300
atggtgaatg tatcgggcca aacaagtgca agtgtcatcc tggttatgct ggaaaaacct	360
gtaatcaagg taggaaaaca gtctgacata aatacacaat cgaagacacc tctatcactc	420
ccaaattaaa aatattctta tctcaaacta ctttcca	457

<210> 1267
 <211> 1029
 <212> DNA
 <213> Homo sapiens

tgatgccctc aaggaaggtg tcaaaaaagg cttccgaggc aaagaaggtg ccatcattgt 1080
gg 1082

<210> 1261
<211> 438
<212> DNA
<213> Homo sapiens

<400> 1261
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acactactcc accaaccgaa gccccaaaa gatgagttcc tgtccagtct ggagagctat 180
gagatcgctt tccccaccg cgtggaccac aacggggcac tgcctggcctt ctgcgccact 240
cotccccaga ggcagcgccg cggcacgggg gccacagccg agtcccgctt cttctacaaa 300
gaggcctcgc ccagcaccca cttcctgctg aacctgacct gcagctcccg tctactggca 360
gggcacgtct ccgtggagta ctggacacgg gagggcctgg cctggcagag ggcgggaccg 420
ccccactgcc tctacgct 438

<210> 1262
<211> 435
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(435)
<223> n = a,t,c or g

<400> 1262
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gcctggaaga cctctagaac ctgagaagag gcagcgatcc tggggcagag tccagggcag 120
ctcaaggctc ctccacacac acacccgctg aacctgagc accctgagct gctgagatgg 180
ggcgggcccg ggctgccgce gtgatecccg gcctggccct gctctgggca gtggggctgg 240
ggagnnnnnn cccannccc ccacgccttc cgttttgcctt acaagagctc caaggccggc 300
atgcgctcca tacttttagc ctggagcgaa cctgctcgta ccaagacttt ttgtgggcag 360
acgagggccg cctccttcat gtgggagcac aagacctgc tacctggcac actctgtccc 420
cgtaggctt gtggg 435

<210> 1263
<211> 488
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(488)
<223> n = a,t,c or g

<400> 1263
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caagcggaaa agacgggect ctctctcoga ctcccgagcg cgagtccctc attttggtt 120
ctcagcgaac ggcggcagcg gcggcgctg gaacaatcac tcggccaagg gcgacagcca 180
actgctgtga gtgcacgggg agaggcccag gcagcgccgg cggcgccggc tctcggttg 240
oggtgaagaa tgcagccac tagcgtggat caaagacctc aaggccaagg aaataaagt 300
tcagtacaaa acggttcgat tcatcaaaa gatggctgta atgatgatga ttttgagccc 360

cgctgtgggg	gagccttgca	gagggcggaa	gtctcttct	cttccaacct	ggaggagatc	1380
tttaactgga	agcgatcata	cacaagggtg	atggcagcgg	cagctggggc	tgcagcggcg	1440
ccgggctcta	gagagccgca	ggatcggcca	gagtgcggag	ctggacaccc	gggtcccaga	1500
tactacagac	accggagag	gtggctcctt	cgccctgaag	ccttcctcgg	ccccctacgc	1560
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gtccgtgaag	agatgctcat	caaggctggc	ggtgctatga	gcagacgtgt	ggttcggcaa	1800
agcaagttcc	gccatgtgtt	tgggcaggca	gcaaaggcgg	accaggccta	cgaggacatc	1860
cgtgtgtcca	aggtcacatg	ggacagctcc	ttctgtgccg	tcaaccccaa	attcctggcc	1920
attattgtgg	aggtcggagg	cgggggtgcc	ttcatcgctc	tgcctctggc	caag	1974

<210> 1259
 <211> 935
 <212> DNA
 <213> Homo sapiens

<400> 1259						
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ccaagaaaag	agcagaactt	ttttgtctgg	gaagggtttt	ctgaaggagt	tataatggaa	180
taggcaggaa	ggagaacttt	agtttctgta	tagcgctttt	tatattatag	gaatttacga	240
acagtagaaa	actgtttgag	gtacaggcag	gggttttagat	aaatatgtga	agattgggtc	300
ttcttttagt	aagcagaggt	gcagaaagat	taactctctc	ctgtacacct	ctcaagtgtc	360
gaaaagcatg	tatactatat	ggaagtctta	gaatttttagt	acaatcaggt	tgtctcgggt	420
ctggaggggac	aggagattct	gtgtctatat	aatcttcagg	actgatgtct	ttgtctctca	480
aagttatgta	tgtgccatca	tatagatcca	gggtccctaa	gggcaccttg	gctttgatgc	540
agtctgggtc	ttctttatta	tgtctctgtt	ccagtcctgt	gtctctgtcc	tcattctctt	600
ctatgtgaat	tttttgagca	actaattggt	tctctaattc	tttgaggtag	ttactgttg	660
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gcagctogta	cgggccacga	accctactg	cggccgcacat	cttgccccc	cggccggggc	900
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<210> 1260
 <211> 1082
 <212> DNA
 <213> Homo sapiens

<400> 1260						
tttcgtgcaa	tgagctgttc	aaatgtggag	actacggggg	cgccctggcg	gcctacactc	60
aggccctggg	tctggacgcg	acgcccagg	accaggccgt	tctgcaccgg	aacggggccg	120
cctgccacct	caagctggaa	gattacgaca	aagcagaaac	agaggcatcc	aaaggtaggg	180
gaatggtggg	ccctgggtgtg	gagctgtagg	gcttctgtgg	tgggcaagga	ctctgggacc	240
gctgcaccgt	cacattctcc	tcctttggcc	ccagagacac	atctgccttc	tttctttccc	300
actgcctcgg	gcctttcttt	ttctgcagct	acccctcacct	tttctgaggc	tgaagcaccg	360
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tcttgccctg	agacagtggc	ctcatgggtg	ctgacagcgc	tcctgtttgt	gctcagccat	480
tgaaaaggat	ggtggggatg	tcaaagcact	ctaccggcgg	agccaagccc	tagagaagct	540
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gcacagtcga	cggacagtgg	caaccttgag	catactggga	actcggcgag	tagtctccat	960
cctgggcgtg	gaaagccagg	ctgtgtccct	ggctgcctgc	cacctgctgc	aggttatgtt	1020

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<400> 1256
ctccagtecc atgccgggag gtctgggtgt tggctgggtcc attccaggac agctacatct    60
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taggccagta ctccctaaaa tgggactctc aggacttctg ccaatcctgg taccattcat    180
ccttttgggg gacatccagg aacctgggca cgctgaaggc atccttggca agccgtgtcc    240
caaaatcaaa gtggaatgcg aagtgggaaga aatagaccag tgtaccaaac ccagagattg    300
ccagaaaaac atgaagtgtt gcccgttcag ccgtggaaag aaatgtttag acttcagaaa    360
ggtcagcctt actttatacc ataaggagga gcttgaataa cctccag                    407

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<210> 1257
<211> 459
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1) ... (459)
<223> n = a,t,c or g

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<400> 1257
aggtncccg ncttgaannc taccgatact ctcgtaannn cccggaattt actactcett    60
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atgtagttaa ttgtatctgg acctgcaccc ccagcttctt tcttggcttc atttaatctc    180
tctcttggct tccttgctt cagggatctc cttcaaggca gggccatttc tggtttcttc    240
cagctcccag ggctccttcc tgcaacagaa aatgttctct ccttcacaga gcttacattt    300
tagtaagtgg attgggaggt tgcggccaag tgtatagtga ggtgacgctt anggaaagct    360
taagctgctc tgagaacacc tgaaaagtac acccaaccgg cttggtgtgg tggctcacac    420
ctgtaatccc agcactttgg gaggccgagg cgggtggat                    459

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<210> 1258
<211> 1974
<212> DNA
<213> Homo sapiens

```

```

<400> 1258
atgcgcgcgt ggggcgcgcg cctgcgcgtc atcttggccg tgcctgcctt tctcggtctg    60
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gccccagacc gtagacgacg gggaggaggc ggacggcgga gggccggcgg accagttcag    180
cgacggggcg gagccactgc cgggagggtg cagccttgtt tgcaagccgt cggccctggc    240
ccagtgcctg ctgcgcgcgc tgcggcgctc agaggcgctg gaggccggcc cgcgtcctg    300
gttctccggg cccacactgc agaccctctg ccacttcgtc ctgcccgtag cgcctgggcc    360
tgagctggcc cgggagtacc tgcagtggc ggacgatggg ctagtggccc tggactgggt    420
ggtaggacct tgtgttcggg gccgcgggat caccagcgcc gggggccttc ctgcgggtgt    480
tctggtgatc cccaatgcgt ggggtgcct caccgcgaac gtgctcggcc tttgcttgc    540
cgccctggag cgcggctact acccggtcat cttccatcgc cgcggccacc acggttgccc    600
actggtcagc ccccggtcgc agcctttcgg ggaccggtcc gacctcaagg aggcggtcac    660
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tcggcgctgc tctgttctca cctggcgag tgcggctcct ccagctacgt gacaggcgcc    780
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gctctcttct gccacaccaa aagcttcccc atcagctggg atgectactg ggaccgcaac    1020
gaccgcctcc gggatgtcga tgaggcagcc gtgcctgtgc tgtgtatctg cagtgtgtac    1080
gaccctgtgt gtggaccccc agaccacact ctgacaactg aactcttcca cagcaacccc    1140
tacttcttcc tctgtctcag tcgccacgga ggccactgtg gcttcctgcg ccaggagccc    1200
ttgccagcct ggagccatga ggtcatcttg gactccttcc gggccttgac tgagtcttcc    1260
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<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1) ... (388)
<223> n = a,t,c or g

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<400> 1253
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ttgcaagctc ggcctcctcc tggaatctaa agcctcctca gccttctgag tcagcctgaa      180
aggaacaggc cgaactgctg tatgggctct actgccagtg tgacctcacc ctctccagtc      240
acccctcctc agttccagct atgagttcct gcaacttcac acatgccacc tttgtgctta      300
ttgggtatccc aggattagag aaagccattt tctgggttgg cttccccctc ctttccatgt      360
atgtagcggc aatgtttgga aactgcan

```

<210> 1254
<211> 695
<212> DNA
<213> Homo sapiens

```

<400> 1254
gactgaagta ccaactaagt catctccttt caaattatca cgcacacccat catggattca      60
agcaccgcac acagtcaggc gtttctggta ttctctccag aaatcactgc ttcagaatat      120
gagtcacacag aactttcagc cagcactctt tcaactcaaa gccccttgca aaaattattt      180
gctagaaaaa tgaaaatctt agggactatc cagatcctgt ttggaattat gaccttttct      240
tttgaggatta tcttctcttt cactttgtta aaaccatata caagggtttcc ctttatattt      300
ctttcaggat atccattctg gggctctgtt ttgttcatta attctggagc cttcctaatt      360
gcagtgaaaa gaaaaaccac agaaactctg ataataattga gccgaataat gaattttctt      420
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aaactacatt tgtgattatt ctcacaaaaa tagtcagtggt aaggctgtta ctgtcctgat      540
cttgggaatt tagaatacat tgatgacttt cagcatatat tgaattatc atattctctg      600
cctttactca attttggggg gccactcaga ggattgtgat tgtgaacaat gttgttgact      660
agcactgtga gaataaagat gtgttaaaat ataaa

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<210> 1255
<211> 386
<212> DNA
<213> Homo sapiens

```

<400> 1255
acgcagagcg agccaccggc cattgactta gataaccagc aaaattaaaa aagaagaaaa      60
aaaacttgta gcgaccaggc agagagcaac gcgattgctt tcaagcgccc ccactcgggc      120
tcggcgggcg ccagacagac atgatgcacc atcctctgac gggggccacc tgcgtggggc      180
tccccaacgt gggcatgtgc cccagctttt cgggggcctt gacttttatg taattacagc      240
agggtaatca ggaagcaacc gttgcctctg acacaatggc tcaaccttac gcttcggccc      300
agtttgctcc cccgcagaac ggtatccccg gggaatacac ggccctcat ccccaacccg      360
cgccagagta cacaggccag accacg

```

<210> 1256
<211> 407
<212> DNA
<213> Homo sapiens

ctggctggtg	cgcggtggtg	cctggcgctg	gctgctgttc	tgggcctacg	cctttggtgg	300
ctgcgtgaac	cactcgctga	ogctggccat	ccacgacatc	tgcacaaacg	oggccttcgg	360
cacggggcgt	cgggcacgca	accgctggct	ggcctgtgtc	gccaacctgc	cggagggtgt	420
gccctacgcc	gctccttca	agaagtacca	cgtggaccac	caccgctacc	tgggcggcga	480
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caagctgctc	tggctggtgc	tgcagccctt	cttctactca	ctacggccgc	tctgcgtcca	600
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<210> 1251
 <211> 1438
 <212> DNA
 <213> Homo sapiens

<400> 1251						
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<210> 1252
 <211> 449
 <212> DNA
 <213> Homo sapiens

<400> 1252						
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gttctctcag	cacagctaac	gttgaatttt	gccttgatgt	gttcaaaagag	ctgaacagta	180
acaacataag	agataacatc	ttcttttctt	cgtctagctc	gctttatgct	ctaagcatgg	240
tctctcttgg	tggcagggga	gagactgaag	agcaattgga	gaaggatagg	aattcctcag	300
agggtttgtc	agaacccaga	agtctttcat	gctcccgctc	tgggtcagca	aaattaattc	360
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<210> 1253
 <211> 388

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(483)

<223> n = a,t,c or g

<400> 1248

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gcgtgccgca	gacagagcat	tccagaggag	ttccgaggga	tcactgtggt	ggagctgac	180
aagaaagaag	gcagcacgct	gggcctgact	atctcaggtg	gcacogacaa	ggatggaaag	240
cccaggggtct	ccaacctgag	acctggggga	cttgacagca	ggagtgatct	gctgaacatt	300
ggtgactata	ttcgggtctgt	gaacgggac	cacctgacca	ggctccgcca	cgatgagac	360
atcacccctgc	tcaagaatgt	gggcgagcgc	gtggtgctgg	aggtggagta	tgagctgccc	420
ccgcccggtg	ggtgcccttg	gacggngaac	tttctccact	gcctcggttg	cgggtggaca	480
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<210> 1249

<211> 1265

<212> DNA

<213> Homo sapiens

<400> 1249

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tggcgtgtgc	acgctagtgt	ccacacacgt	gtgcgtgggc	tctgggtgcc	ctggcgccgc	360
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gctggaggcc	atctactttg	tcatagtgtg	gcttaccacc	gtgggctttg	gcgactatgt	1260
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<210> 1250

<211> 652

<212> DNA

<213> Homo sapiens

<400> 1250

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gcacacgcag	cggcgcaagg	agatactggc	caagtaaccg	gccatcaagg	ccctgatgcg	180
gccagaccgc	cgcctcaagt	ggcggtgct	ggtgctggtg	ctggtgcaga	tgctggcctg	240


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gaaagagaga ttcctcctga aatacaaaat gaaaatccaa atgccgtttc ccagaaggcc 600
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cagaagccat gttagatgag cctcaggaac aagcggaggg ctccctgact gtgtacgtga 720
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<210> 1246
<211> 464
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(464)
<223> n = a,t,c or g

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agcttggcgc ccagcgggta cgtgagccaa ggcacccgga tgtccgcgcc cctctccag 180
tgaccagtc cggcctcccg tcccgcagtg cccgcagcct cgggcggcgt ccaocgattg 240
ccatggtgac tgtgggcaac tactgcgagg ccgaagggcc cgtgggtccg gcctggatgc 300
aggatggcct gagtccctgc ttcttcttca cgctcgtgcc ctgcacgcgg atggctctgg 360
ggactctggc cttgggtgct gctcttccct gcaaacgccg ggagcggccc gctgggtgctg 420
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<210> 1247
<211> 398
<212> DNA
<213> Homo sapiens

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<400> 1247
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gcgtcaaaaa tggatcaggg ctgttaatcg tgtggacccc agaagcaaaa agatttggat 180
tccaggacca ggtgctatac tgtgttccaa acattttcaa gaaagtgact ttgagtcata 240
tggcataaga agaaagctga aaaaaggagc tgtgccttct gtttctctat acaaggtatt 300
taaatattcc tcaaggtgta catcttaag gtaagcaag acaaaaaatc ctaaaacaac 360
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<210> 1248
<211> 483
<212> DNA

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tgagcccatg	ccgctgtgat	ggctcgggtca	agtgcacaca	ccagccttgc	ctcatcaagt	240
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ccataagcac	aaaaaatcct	ctgcagtggc	aggccatctc	tctgacggtc	attgagaagg	360
ttcaggttgc	agccgccatc	ctgggtctcc	tcttcctcat	cgccagtatt	tcttggctca	420
tctggtcaac	tttcagcccc	tccgcaagat	ggcagcgcca	agaccttctc	ttccagatct	480
gctacgggat	gtatggcttc	atggacgtga	tgatttgtggc	tgttgactct	gaagatatgg	540
tccaagcagc	taaggaggtg	gggaagcgct	ggtcagacat	cccaccctag		590

<210> 1243
 <211> 411
 <212> DNA
 <213> Homo sapiens

<400> 1243						
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ccctttctcc	ctccatcctt	gcacttcccc	tgctcggccc	cgccgtcagg	ccgggcccc	120
cttccttgcc	gtcatcaggt	tccccttctc	ccttcttggc	actttccttt	cgaaccatcc	180
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gattactggc	gcgcgaaaac	acctttctgg	acaccatcgc	cacccgtttt	gacggaacac	300
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ccgatggctt	ctgcgagctt	gctggatttg	cccgaactga	agtcatgcag	c	411

<210> 1244
 <211> 650
 <212> DNA
 <213> Homo sapiens

<400> 1244						
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cccgcgctcg	cggggatcgc	cccogagcgc	tgctgctctg	gggtgggtca	cctaaccat	120
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gttcagcata	gttggttttc	tgaggattgg	gttcgtggtg	ggtcacgtcg	ggctactgca	360
ggccctggcc	atgctgctgg	ttgcctactt	catcctggca	ctcacccgtcc	tctctgtctg	420
tgccatcgcc	accaatggag	ccgtgcaggg	gggcggagcc	tactgtatcc	tccaacatcg	480
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<210> 1245
 <211> 1620
 <212> DNA
 <213> Homo sapiens

<400> 1245						
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ccgcgtcggg	gatggggccg	gtacctagc	ccgtttccag	cgcctcagtc	gggtcccat	300
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ttacgcggga	gtcagtgcgc	ctggacgacc	aggagaagct	gcccttcacc	cgttgtgcat	540

<211> 396
 <212> DNA
 <213> Homo sapiens

<400> 1240
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 tctggatgca gggcttcgtg ctggaggcgg tggcctgcc ggataacgat gactacttac 180
 gctacgggat cctcttcgaa gacctggatt gcaatgggga cggcgtggtg gacatcattg 240
 agctccagga ggggctgaga aactggagct ccgcgtttga cccaactcc gaggagcatg 300
 gatagtgatg gatcaatgac agtagactgg gatgaatgga agtactactt ttactgcat 360
 cctgcaacaa atatcactga aatgattcat ttctgg 396

<210> 1241
 <211> 1380
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (1)...(1380)
 <223> n = a,t,c or g

<400> 1241
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 gattaaaaag ccgtggccaa gagttcgaag tgaaagtcag cccttttagct attatttatt 120
 gctttattag agcagaggga agtgacactc attgccttca cagagctctg cagaaatata 180
 tgcacagagt ggtcaatgac caacatctga gtaagtcttc caaattatca cattaataata 240
 acctttcaaa tttgagtgc tctcctttgc aaacaactgc aacctcataa tgaataattt 300
 tatatattat caaaaagaac cagaagccca ggtgcttttt tccccaaaat ccacttacta 360
 aggacttgag tgaaaatcca ctctaagcag atcactgtta ctatttcocct ttcaaaacag 420
 ttggaaatcc taaggtagcg gtactaagaa gatagcaata tcctttotaa gctggtaaga 480
 atctagcccc acagggacaa tttggcaatc ctgtttctgg aagccaggac tccagagatt 540
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 tctcacactg actcaagccc tctgccccct tcaaaaggat ccactctccc ccaggtctta 1380

<210> 1242
 <211> 590
 <212> DNA
 <213> Homo sapiens

<400> 1242
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 cagatgactt ctgtaaggag aagaccgagg atcgtacttc actgggcagc agcttggaca 120
 gtggtatgag gacccactc tgccgcatct gcttccaggg gccagaacag ggggagctgc 180

<222> (1)...(532)

<223> n = a,t,c or g

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<400> 1237
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ctggagtgcg gatgcccta taggccactt aaatgccaaa gcactgcact gaagcattgt 180
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ccttggtggtt tgttttctgg tttcattcctt aacgcacttt tcaagatata aaccgacaag 480
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<210> 1238

<211> 967

<212> DNA

<213> Homo sapiens

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<400> 1238
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catgagaatc tggaggggac tcccttccca gaaacttgac gatgaagtac tggttgtaat 480
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tggttgaaat ttatggtata gaaggaaaca ttttcaggct taaaattaat gaagagactc 840
ctctaaaacc cagatttgaa gttccggatg tcctcacaag caagccaagc actgtaaggc 900
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agtgccca 967

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<210> 1239

<211> 540

<212> DNA

<213> Homo sapiens

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<400> 1239
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ctatggtgcg tgcggggcgcc gtgggggctc atctccccgc gtccggcttg gatatcttcg 180
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tcgtgtcttc tgcactcatg atatggaaag gcttgatcgt gctcacaggc agtgagagcc 300
ccatcgtggt ggtgctgagt ggcagtatgg agccggcctt tcacagagga gacctcctgt 360
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aaggacgaga cattccaata gttcacagag taatcaaagt tcatgaaaaa gataatggag 480
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<210> 1240

<400> 1234

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tctttgtcct	ctctcttcog	gcttcgagat	gaatgtgcag	cctctgttcta	gggtgtgggta	180
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tcactgtgaa	gtttgcaaga	tgatgctgtc	tgtaataaac	tttgtgagtc	accagaaaaa	300
gccgtactgt	cacgcccata	accctaagaa	caacactttc	accagtgtct	atcacactcc	360
attaaatcta	aatgtgagga	catttccaga	ggccatcagt	gggatccatg	accaagaaga	420
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<210> 1235

<211> 835

<212> DNA

<213> Homo sapiens

<400> 1235

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ttccacgttc	cgtctccctg	tgccagccct	caggacctga	gcagccggcct	tgccgtagcc	180
tatgtgctga	accagataga	cccctcctgg	ttcaacgagg	catggctcca	gggcatctcg	240
gaagatccag	gtcccaactg	gaagctgaag	gtgacaagtg	gactcctgat	tagaggacag	300
actgggtgaag	agatgaccag	ggacggggcca	gctaggcaca	tgctcctgggt	gatgggcagg	360
aagagggaca	gatgtctggg	gatcaaccat	ttgttcatcc	attcatctat	ggagtactca	420
ccctgtgccca	ggcctgggca	ttcagcaagg	aataacacag	acaaaaacct	gccccacaca	480
gccatcattc	tagtgacaag	caacacatac	acaaccataa	aaattaactt	ccaggctggg	540
cgcagtggct	catgcctgta	atcccaacac	tttgagaggc	taaagtgggt	ggatcacctg	600
gggccaggag	ttcaagacca	gcctgggcca	caagttgaaa	ccccatctct	actaaaaata	660
caaaaattag	ctgggtgggg	tggtgtgcac	ctgtaatccc	agttacttgg	gaggctgaga	720
catgagaatc	acttgaacct	gggaggtgga	ggatgcagtg	agctgagatt	gagccattgc	780
actccagcct	gggcaacaga	gcgagactct	tgtctcaaga	agaagaaaaa	aaaaa	835

<210> 1236

<211> 608

<212> DNA

<213> Homo sapiens

<400> 1236

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accaatggat	gaggataggg	aatgactgag	ccataagatg	aaaggattct	ggaaatatat	180
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caaaatataa	tcaaagaaaa	caaaagaaga	aaaataataa	agatctcaac	tgagatccctc	300
ccattgtcag	attttgacct	aggaccatct	tggaaaggga	ttcttctgtg	attcagagggt	360
gaagccctta	cagtgaaggt	tcttactaag	cgattcattg	gagaatatgc	ttctaatttt	420
gaatctatct	ataagaagca	cttgtgtttg	gaaaggaaac	aactaaatct	agaaatatat	480
gaccttgtgt	ctcaaacaca	gaaagcaaaa	ttctccctca	caagtgaagt	tcactgggca	540
gatgggtttg	ttattgtgta	tgacatcagt	gataggctct	catttgcttt	tgcaaaagcg	600
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<210> 1237

<211> 532

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

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gaggtggact ggaaccagag cacctttgac tgcgtggacc ccctggccag cctggacacc 480
aacaggagcc gcctgccact gggcccctgc cgggacggct ggggtgtacga gacgcctggc 540
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cagtcacag tgaatgtagg attctttatt ggctctatga gtatcggcta catagcagac 660
aggtttggcc gtaagctctg cctcctaact acagtctcct taaatgctgc agctggagtt 720
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aacttcttct tcttgctcta ttactgggtg atacctgagt cctccagggt gctgatctcc 1020
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<210> 1232
<211> 517
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(517)
<223> n = a,t,c or g

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<400> 1232
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nccgcgncga cccacgcgnc cgggaggact gcagggccag ncccagggc caggcatgca 180
ggggccccc cccatcacgc ccacctcctg gagcctgccc ccgtggaggg cctacgtggc 240
tgccgcctg ctctgctaca tcaacctcct gaattacatg aactgggtca tcattgcagg 300
agtgtgctg gatatacagg aggttttcca gatcagtgac aacctatgct gtttgettca 360
aactgtcttc gtttagctgc tgctgctgtc tgcacctgtg tttggctacc tgggcgaccg 420
acatagccgc aaggctacca tgagcttcgg tatcttctg tggtcaggag ctggcctctc 480
tagtccttcc atctccccc ggtattcttg gctcttt

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<210> 1233
<211> 419
<212> DNA
<213> Homo sapiens

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<400> 1233
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gtggccctct cagtggccct gggactcttc tttgttttca tggggactat caagctgacc 180
cccaggctca gcaaggatgc ctacagttag atgaaacgtg cttacaagag ctatgttcga 240
gccctccctc tgctgaagaa aatggggatc aattccattc tctccgaaa aagcattggt 300
ggccttgaag tggcctgtgg catcgctatg acccttgtgc ctgggcgtcc caaagatgtg 360
gccaaattct tctactgtt gctgggtgtg gctgtgctct tcttcacca gctggtcgg 419

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<210> 1234
<211> 456
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

<400> 1229
cggtgctgtc gcctgtgaca cgtagcaacg gggctggttc agggctctgaa acagagtttg 60
ggggttgttt gggatttagtg aagctactgc ctttgccgcc agcgcagcct cagagtttga 120
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atcgatgatc agtcacagca gtcctatgat tatggaggaa gtggaggacc ctatagcaaa 240
cagtatgctg gctatgacta ttgcagcaa ggcagatttg tccctccaga catgatgcag 300
ccacaacagc catacacggg gcagatttac cagccaactc aggcataatac tccagcttca 360
cctcagcctt tctatggaaa caactttgag gatgagccac ctttattaga agagttaggt 420
atcaattttg accacatctg gcaaaaaaca ctaacagtat tacatccgtt aaaagtagca 480
gatggcagca tcatgaatga aactgatttg gcaggtccaa tgggtttttg ccttgctttt 540
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aggaggcgga gcttgcaagt agccgagatc acaccactgc actccatcca gcctgggtga 1560
caggggtgaga ctctgtctca aaaaaaaaaa 1589

<210> 1230
<211> 381
<212> DNA
<213> Homo sapiens

<400> 1230
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gcgacccttt atggattatt ttgacggagt cctgatgttt gttgatattt caggcaagtg 180
caaaagggat gtttgtttta tgtggatgag caacaggctc gcgtgggaat tcacatgcag 240
agcttgattg cagagtaggg aggccattct ggagcccttg ggctgtcaca gcagatgtgc 300
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ttactcagga ctgccagtca t 381

<210> 1231
<211> 1100
<212> DNA
<213> Homo sapiens

<400> 1231
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tcgggcccct ctgcctgcag gatcatgccc accaccgtgg acgatgtcct ggagcatgga 180
ggggagtttc actttttcca gaagcaaatg tttttctctt tggctctgct ctgggtacc 240
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g

421

<210> 1226
 <211> 492
 <212> DNA
 <213> Homo sapiens

<400> 1226
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 ggcagtttgt tgggaaccgc tccaaccctc ggttcttcct gcaatacagt ggatacaatt 180
 tgtcatggct actctgagat aagaccactt ttttatctga gcttctgtga cctgctcctg 240
 ggacttttgc ggctcacgga gacacttctc tatggagctt cagtagcaaa taaggacatc 300
 atctgctata acctacaagc agttggacag atattctaca tttcctcatt tctctacacc 360
 gtcaattaca tctggtatct gtacacagag ctgaggatga aacacaccca gagtggacag 420
 agcacatctc cactgggtgat agattatact tgtcgagttt gtcaaatggc ctttgttttc 480
 tcaagcctga ta 492

<210> 1227
 <211> 416
 <212> DNA
 <213> Homo sapiens

<400> 1227
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 tcgccagaaa agaatttctg cgtggaaatg gcttagctgc tgggaaaatg aacatcagta 120
 ttgatttaga cacaaactat gctgagctgg ttctaaatgt gggaagagtc actcttggag 180
 agaacaatag aaaaaaaatg aaggattgtc aactgagaaa acagcagaat gaaaatgtct 240
 cagcagctgt gtgtgctctg ctgaattctg gagggggagt gatcaaggct gaagttgaga 300
 ataaaggcta tagttataaa aaagatggaa tagggctaga tttggaaaat tcttttagta 360
 acatgctgcc atttgttctt aatttccttg acttcatgca gaatggtaac tacttt 416

<210> 1228
 <211> 411
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(411)
 <223> n = a,t,c or g

<400> 1228
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 gatgaagact gagcggttgt ggccgccttg ccgaccttga gcagcagttg gcttctccac 180
 atagtaccg ggaataggag tctcagaatc gaatctcttc tgccgtgtca cttctgtgag 240
 atttttttga tcttcagcta catttttggc tttgtgagaa gcctcatcat ccaacacagt 300
 ggccagcaac gttgccgaca agacggatcc tcactccatg aactcccggt tgttcattgg 360
 gaatctcaac actcttgtgc tccagaaatc tgatgtggag gcagtctttt n 411

<210> 1229
 <211> 1589

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acatttcacg	tattccccac	agatgaaaac	atcaaaagga	aatgggtatt	agcaatgaaa	180
agacttgatg	tgaatgcagc	cggcatttgg	gagcctaaaa	aaggagatgt	gttgtgttcg	240
aggcacttta	agaagacaga	ttttgacaga	agtgtctcaa	atattaaact	gaaacctgga	300
gtcatacett	ctatctttga	ttctccatat	cacctacagg	ggaaaagaga	aaaacttcat	360
tgtagaaaaa	acttcaccct	caaaaccgtt	ccagccacta	actacaatca	cc	412

<210> 1223
 <211> 564
 <212> DNA
 <213> Homo sapiens

<400> 1223						
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gatacaggct	tgggtcgtta	cacatgacac	cagtgccttt	gtttcattgg	gtcgggctct	120
ctggaagggtg	tgctgctgcc	tgagctgctg	gaaaagcact	gacagggtgt	tgctagaaaa	180
gcactcctgg	agcttgccac	cagcttggac	ttctagggac	tttcctctca	gccaggaagg	240
atthttgat	tcatacagaa	tacctccaga	agattcaagg	agctgtagag	gtgaagtaag	300
cctgtgaagg	accagcatgg	gaatcctata	ctctgagccc	atctgccaag	cagcctatca	360
gaatgacttt	ggacaagtgt	ggcgggtgggt	gaaagaagac	agcagctatg	ccaacgttca	420
agatggcttt	aatggagaca	cgcccctgat	ctgtgcttgc	agggcaggggc	atgtgagaat	480
cgthttccttc	cttttaaga	aggaatgctt	atgtcaacct	caaaaaccag	aaagagagaa	540
cctgcttgca	ttatgctgtg	aaaa				564

<210> 1224
 <211> 632
 <212> DNA
 <213> Homo sapiens

<400> 1224						
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cggtatgcga	cacacggggc	aaatatcgag	agggacgacg	gcctcgtgct	gtgaagggtat	120
atacaatcaa	tttggaatct	cagtacttat	taatacaagg	agttcctgct	gtgggagtca	180
tgaagggaatt	agttgagcga	ttcgctttat	atggtgcaat	tgaacagtac	aatgctctag	240
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aggcatatgt	agtaaaaact	actgaaaata	aagaccatta	cgtgacaaag	aagaaattgg	480
ttacagagca	taaagacaca	gaggatttta	gacaagactt	ccactcagag	atgtctggat	540
tttgtaaagc	tgctttgaac	acttctgcag	ggaactcaaa	tccttatctt	cgtatttcct	600
tggaattgcc	tttatgttat	ttctcctcaa	aa			632

<210> 1225
 <211> 421
 <212> DNA
 <213> Homo sapiens

<400> 1225						
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accccagaca	tcaagctctt	tgggaagtgg	agcaccgatg	atgtgcatat	caatgacatt	120
tccttgacag	attacattgc	aggtgtgaga	ttaatacttt	tatagtcctg	ttatgttaat	180
ttggtattat	tttggtatatac	tatttaacgt	gcttctatth	tttgattgta	tttggtatag	240
gtttattttt	tgthtttatgt	gtggtgtatt	atagthtttat	tgtgatataa	tagattgtat	300
ttattggttc	tggtgtgtta	tgetatgttt	attaaactth	tgtaaatattg	atctthtttt	360
atgtatttaa	gtgttggtta	tcttgatttt	thtttggtagt	tggtgtgttc	ttattthtca	420

<211> 284
 <212> DNA
 <213> Homo sapiens

<400> 1219
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 caggcagcgt gccgtccctg gctgcagggc tgctccttgg cagtctatcc ggcctgggtg 180
 cttaccaact gtctcaggat ccaaggaacg tttgggtttt cctagctaca tctgggacct 240
 tggttggtcat tatgggaatg aggttctacc actctggaaa atta 284

<210> 1220
 <211> 699
 <212> DNA
 <213> Homo sapiens

<400> 1220
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 catgtccagg gtcagattac aagagcactc aagactttac tgacgaaaac tcaggaaatc 120
 ctctatcaca aagagggttg gcaactaaac taagacatta aaaggaaaat accagatgcc 180
 actctgcagg otgcaataac tactacttac tggatacatt caaacctctc agaatcaaca 240
 gttatcaggt aaccaacaag aaatgcaagc cgtcgacaat ctcacctctg cgcctgggaa 300
 caccagtctg tgcaccagag actacaaaat caccaggtc ctcttcccac tgcctctcac 360
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 ccggagtaaa tcaaacctta ttatttttct taagaacaca gtcattttct atcttctcat 480
 gattctgact tttccattca aaattcttag ttagtccaaa ctgggaacag gaccactgag 540
 aacttttctg tgtcaagtta cctccgtcat attttatttc acaatgtata tcagtatttc 600
 attcctggga ctgataacta tgcgtcgcta ccagaagacc accaggccat ttaaaacatc 660
 caaccccaaa aatctcttgg gggctaagat tctcaagcc 699

<210> 1221
 <211> 562
 <212> DNA
 <213> Homo sapiens

<400> 1221
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 acaacttaaa taagtcaaat atacttgtag ctttaaaaaa taaaaggaga gagattcgag 180
 cacccttttct gctgccatga caaccatgca aggaatggaa caggccatgc caggggctgg 240
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 gcaagagaag ttcttgaagg gagaacccaa agtccttggg gttgtgcaga ttctgactgc 360
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 taaccctatt tccgtgtata tcgggtacac aatttggggg tcagtaaatgt ttattatttc 480
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 aggaatgaat atcaccagct ct 562

<210> 1222
 <211> 412
 <212> DNA
 <213> Homo sapiens

<400> 1222
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<400> 1217

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ctcacaggac	tcaaacacagt	tgggtgcattc	aactgagaaa	aagaacaaat	gagaacatgc	180
agaaaacact	ggaaataaaat	tatctaaaaat	tatgtctaaa	aattgaaagca	taattaggaa	240
ttccagaatg	atttaagatc	tctacaactc	ctctctactt	ttttagtcca	ttatctttta	300
cagaaccaat	gttcaaatac	attttttagga	atgtatttag	taggatataa	gaggacttct	360
tgtgttgaaa	atgaagaaaa	aaattgaccc	aacattagtt	ttttaatcgc	atctactgaa	420
tgattcccta	agattagaaa	aaattgcctt	agcaatcaac	aaatgcaagc	caagaaatta	480
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<210> 1218

<211> 405

<212> DNA

<213> Homo sapiens

<400> 1218

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catgggctat	caaagaagaa	catgtgatca	tccaggccga	gttctatctg	aatcctgacc	180
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gtgcattggc	caacatagct	gcggaccaag	ccgccttgga	aatcatggac	atgggctccg	360
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<210> 1219

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atcaagggtg gtttagagcca agctatgagt ccctataat caggagaatt gcttaaacc 840
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gaaagactct at 912

```

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<210> 1215
<211> 429
<212> DNA
<213> Homo sapiens

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<400> 1215
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ccccactcc 429

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<210> 1216
<211> 799
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1) ... (799)
<223> n = a,t,c or g

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<400> 1216
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tctctggaag gtggttaatt tttctggtcc tgatattgga tattgtcaca ttttccttga 240
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tggtgcttcc ctgttcttcc tcagccatgc tggggctcac tgcagcctcc tctgctcaac 360
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<210> 1217
<211> 2432
<212> DNA
<213> Homo sapiens

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<400> 1211

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gtcagcagtt	caagaccagc	ctggccaaca	tggtgaaacc	ccctctctac	taaaaataca	540
aaaaattaac	tgagtgtggg	gcaggcgcct	ataatccagc	tactcagagg	ctgaggcagg	600
agaatccttg						610

<210> 1212

<211> 402

<212> DNA

<213> Homo sapiens

<400> 1212

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ttgaaatagc	tgctgatctc	tttctatctt	ttggtagtca	ccatcaacag	gaaattgcta	300
gcctaagtaa	gttgagcaaa	atgggtcaag	agtatttttt	agtggggtaa	aactcgtttc	360
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<210> 1213

<211> 356

<212> DNA

<213> Homo sapiens

<400> 1213

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aagcatgagc	tcccagatac	cccggatgta	ttccacogac	gtggaggctg	ccgtcaacag	240
cctggaggat	ttgtacctgc	aggcctacta	cgcctacctc	tgtgtgggct	tatatattcca	300
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<210> 1214

<211> 912

<212> DNA

<213> Homo sapiens

<400> 1214

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<210> 1209
 <211> 558
 <212> DNA
 <213> Homo sapiens

<400> 1209						
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tggggccctt	ccagagaaat	gtactgaaaa	agtctacgca	atgtctggga	tttgctaaac	180
aatacctgga	aagcagacag	gtttttttgc	cattcctcca	ggacatccac	cataaggaaa	240
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<210> 1210
 <211> 383
 <212> DNA
 <213> Homo sapiens

<400> 1210						
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<210> 1211
 <211> 610
 <212> DNA
 <213> Homo sapiens

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<210> 1205
<211> 424
<212> DNA
<213> Homo sapiens

<400> 1205
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aaagacgcac cgcaaatggt ggtgaccttc aaggatgtgg ctgtgacctt tttccgggag 180
gagtggagac agcttgtgct ggtccatagg accctgtacc gataggggat gctggaaacc 240
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tatcatggga ccagctgtt gatagtgaag agagaggtgt cacattctcc ctgcgcgggt 360
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gcgt 424

<210> 1206
<211> 476
<212> DNA
<213> Homo sapiens

<400> 1206
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gcaccccaaa ctacgcaact tcataacacc ttcctctccc cgctgaagc cttaaaactgc 180
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caaccggggg ctgcctccac tccgcacttg gaatggacag aagttgctgt ggctgc 476

<210> 1207
<211> 412
<212> DNA
<213> Homo sapiens

<400> 1207
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<210> 1208
<211> 1173
<212> DNA
<213> Homo sapiens

<400> 1208

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<210> 1202
<211> 428
<212> DNA
<213> Homo sapiens

<400> 1202
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ccatactt 428

<210> 1203
<211> 738
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(738)
<223> n = a,t,c or g

<400> 1203
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<210> 1204
<211> 415
<212> DNA
<213> Homo sapiens

<400> 1204
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ggcatccaag	gcagaatggg	atcggacca	atggaagatt	gagaactaca	ttaatgagag	1260
cacagaagcc	cagagtgaac	agaaagagaa	gtcgcttgag	ctcacaaaag	aagttccagg	1320
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gattataactt	ttctgcctca	ttgtgatgtg	ttgtcaccca	aggctattac	aagaagatga	1440
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ggagagtcag	gatggacttt	tttcattcag	acggccgctc	tggcttaaa	atatgtacaa	1560
acctctcagt	gccacaagaa	taaataatca	tgcatggaag	ctgcacaaga	agtcattctaa	1620
tgaggacaag	atcctcaaca	gggaccttgg	ggacagcgaa	gccccaacgg	aggaggagga	1680
gagtgaagcc	ctgccatagg	aggagaacac	agccacctc	aggcctcctg	caaaaataca	1740
tagaataaac	aacaacagtt	actaaatgaa	aaaaaaaaa	aagggggggc	cgttttaaa	1800
aatccaagtt	aacgaacgag	ggctggcaga	ggaatagctt	ttttatagg	cccccaaat	1860
caattccctg	ggcggcgggt	taacaacggg	gggacgggaa	aaacccgggg	gtaacccact	1920
taaatcgccc	tgtgggaacc	cnnnnnnnnn	nnnnnnnnnn	gnntttntn	gggnttgggg	1980
tttgggtgtt	ttgttgtttg	gggtgggttt	ttntgtgggt	tgtgttgtgt	gtntgggggt	2040
ggggtgttgt	ggtgtttntt	tt				2062

<210> 1200

<211> 480

<212> DNA

<213> Homo sapiens

<400> 1200

gatttgccct	actataactc	ttagaaaaaa	ggcttacaac	ttttgaaggt	ttagcatgat	60
gtcagatgtc	catttgtcat	atatggcctt	tattggcttg	aggatgtat	gttctatatg	120
taatttgttt	tgagattttg	tcataaagta	atgttgaatt	ttctaaaatt	ctttttctgc	180
attcacttaa	aagttataat	tggttctgag	atccttcac	tttctcagaa	tctaggagga	240
tgcattctgt	cctataggag	gacacaaagg	catcatatgt	tacattctcg	tgacatataa	300
tgtctactgc	ttataatgtc	tactgtgagt	ttctgactcc	ccaaatgaaa	ttgaggccca	360
gaaactttca	actgctttgt	togttgaata	atgccaagt	tctggaaatg	tgactattca	420
gattaaatgc	ttaatgtgtg	tgtgttgact	aaataaatct	caaccagaac	cttctcagat	480

<210> 1201

<211> 590

<212> DNA

<213> Homo sapiens

<400> 1201

gcgcccgcat	cgccttgccc	agccggcagt	cggtcaacgc	gctctccatg	tactcgtgca	60
ccagctctgc	ctccacctca	tgcagtgga	agaagtggac	atccggcttg	ctctgctcgg	120
agtcctggca	cacgagcagc	agcacagacg	ggtagcgag	ctggttgagg	accgtctggc	180
tgcgctgcac	cgtgggcagc	gggaagtctt	ccagctcctc	ctgtgactcg	atgtccagca	240
gcgcgagcga	ctggctgttc	acctgcagca	gcattctctg	ggccagatc	ttctccttgg	300
agctcagctg	caccagcttc	cggatggcgt	cgtccacaga	cgtgatggct	tcgctcttgt	360
ccatgatgaa	tgtggccagg	tgtgtgacgt	ggtactgcga	ggctctctgc	atgatgacgt	420
tggagttgga	atacttcttc	ctctgctctg	aaacgggaga	caccagtcac	tccccgagc	480

tattttgccgc	ggacaaaactc	tcggaggaca	ccacacctgt	aatgagaacc	gcacgcaggg	420
tacatcggggg	cactgtttcc	aatgagcggg	ggctggccag	ggggccag		468

<210> 1197
 <211> 449
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(449)
 <223> n = a,t,c or g

<400> 1197						
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aangcttttt	ctttcgtag	ttactgcata	ctcgcagaaa	ctattttgac	ggcgtgggtga	120
aaggctcaat	ataggggggg	agtactgcgc	acagagcttc	atgtttttaa	atttttttca	180
tatacttggt	gatgagttat	ttagtattca	ttgggggaga	aaaagccgta	cgggaccctt	240
tctctttaac	tcatgtatgt	ctatatgggtg	ggaaaattgc	ctggctaaat	tgcttggtt	300
tcagggttgt	tctttccttc	taaccaggca	aatctttgtt	ttttatgcta	taagctgaca	360
gcagattcca	ggtacagagg	gcacgctatg	aggcacctaa	ctggaaatac	aagtatggct	420
attagattcc	tgtggacatg	ctgtgtaan				449

<210> 1198
 <211> 381
 <212> DNA
 <213> Homo sapiens

<400> 1198						
agaatagcta	ctctttctct	tcttttggtc	cctctctttc	agtctatatg	tgtctctaaa	60
ggggaagtga	gtctcttata	ggtggcatat	atttggttct	tgttttacta	tccattcagc	120
cactctgtgt	cttttggttc	actgatttgg	tccactgata	tttaaagtaa	ctattgatag	180
gcatttttga	gttttcttgt	tcttttattt	ctctcttgct	gtgcatgatt	tgattacttt	240
gattattttc	tgtagtggta	tactttgatt	ctttgctgtg	cctttgtatt	aattcttttt	300
taaacatgtg	gtaaaattct	catttgtgta	tctgttacat	gttttgtctt	tgtgtttatc	360
atgaggctta	cataaaacat	t				381

<210> 1199
 <211> 2062
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(2062)
 <223> n = a,t,c or g

<400> 1199						
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actgtaggca	aaaaccggca	gagactgaat	agagtccctca	tggggcccaag	gagcatccag	120
aaaaggcact	tcaaagaggt	aggaaaggcag	agcatcagga	gggaacaggg	tgcccaggca	180
tctgtggaga	acactgccga	agtaaaaaag	gctcgggaagt	ccagcccca	gggagctgaa	240
acagcctcac	acacagcagg	ggcctgagaa	gttagcggga	aacgccgtct	acaccaagcc	300
ttcgttcacc	caagagcata	aggcagcagt	ctctgtgctg	aaacccttct	ccaagggcgc	360
gccttctacc	tccagccctg	caaaagccct	accacaggtg	agagacagat	ggaaagactt	420

<213> Homo sapiens

<400> 1194

catttttgcca	gcgcccgcga	ttgaagtgtt	gttgccagt	gaccaggaac	accttagcca	60
ctccagcgca	gcaagtgtt	aaactttgag	tgccataagag	caaagccatg	ggcctgggtct	120
cagtccccca	gggcatgcag	ttcagcgctg	ctgaaatcat	ccagaagcag	agccagttca	180
ctgaacgtgc	agtgtatact	gcagtcatac	cctcaagggc	atcaaagaat	ataaaaacaa	240
aaagcctcat	ccaaaggaca	gcaatttcga	agatgaaagg	aacatccctt	catgttaaaa	300
accctcaaca	aactaagaat	tgaaggaca	tagctcaaaa	taagaagagc	catctatgac	360
aacccacag	ccaacatcat	agtggagggg	caaaagctag	aagcattccc	cttgagaact	420
ggaacgagac	aag					433

<210> 1195

<211> 1229

<212> DNA

<213> Homo sapiens

<400> 1195

tttttttttt	ttatgaaaaa	tccaaagttt	attgcaaatt	gtattttgct	tcccttcggt	60
cttcattttt	acaggattta	ttgatatacca	tgattttttc	acagatgtac	ttgttgactt	120
tggagagtct	ctgtgcaatt	tcagtttcat	ccacagtttc	ttgtgctatt	ctgtcataca	180
aacactctct	gacgatgctt	agtttgtgag	gcgagagggg	tggtttaggg	actgcatctt	240
tctttttttt	tgtggcgacg	cctgtgacgc	ttctgttttt	cagaacatct	gttccccaaa	300
tcataactgc	caagttcttc	gtgtacttgg	aatctccttg	ggttacttgt	agctgggtgc	360
atttctcctc	atcaacccaa	atcccgcttc	ccagatggac	cttgccattg	tctaggatat	420
acttgtccat	gacaggcgca	ggagcggggg	aataggacga	cgtatttgc	tctcactga	480
aagtgtccg	taactccggc	tcgggctcga	gacattctga	ctttactttt	tccagatcaa	540
tggcgggacc	gctgccaaag	ctcaggagca	gcacgtcctg	gagcctccgg	ttaagggtcac	600
ggagctcctt	catttcagac	acaagtgcct	cgtactcctt	gagcttcttg	gcctgttgta	660
ccagctgcct	ccgagtcgcg	tccagctcct	gctggagggtg	gcgcactctc	tctgttgct	720
gctggtagtt	gcgcagcagc	tccatcataca	gagcccgggg	caccacagca	tcttctagac	780
tgtccatgtc	ctctgtgcct	ggcgaggcct	ccacgaagac	ctcttcggga	caagtgtat	840
ggcccaggct	caggccgttc	tgttctctta	gcgcagccac	cactgcctcg	atgctcttgt	900
gcgcacttc	gtcgggttc	cgccctcag	gtctcttgat	gtgtctaagc	tgtaaatctt	960
cttccccata	atctttaacc	tctccatctt	cttctacatg	attaagagaa	agcttgggga	1020
tttttatttt	cttctgcac	acactgtttt	caaggtcaga	tttgtcttct	gccagcgcca	1080
ggatctgggc	cttctgggagc	aacagcgcg	cccagtcg	gggggcgcg	ggggggtct	1140
cgggcccggc	gcccattcc	tccgggcccc	ggtacacggc	gtacaccttc	tggttgtcaa	1200
aatccagccg	cgagcggggg	ctgaagtgc				1229

<210> 1196

<211> 468

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (468)

<223> n = a, t, c or g

<400> 1196

cccctaggtg	gtctgtgcag	angcnacn	gnnncggaan	ncccggnacg	acgaggtcgt	60
cgcgggggcg	gcgaaggagg	cgagagcggt	tttttccgta	ngaagccaac	cttccctgct	120
tctccggggc	cctcgcccc	tcctccccac	aaaatcaggg	atggaggcgc	ctccccggca	180
ccctcttagc	agccctcccc	aggaaaagag	tccccctga	gctcctaacy	ctccccaa	240
gctaccctg	ccccccacg	catggggccc	ggtgccccct	ttgcccggg	ggggcgcca	300
ctgccgcttc	tgggtgcgat	ggcggaacgg	gtggctccgg	ggtgggactt	gcacaccccc	360

```

tttcaaaaaca tgctaattcc aaagccactt ttgaagtcta tagtggaataa tatagatggg 1140
gtgaaagata taatgtattg atttttaaag ctgtttataa gccgtccac gtataaaatg 1200
aaacatttta ccttctctct ttctaattgag atggccgctt gttaaatacat gaaaacatcc 1260
agaattcaag tgccgcttaa actttgaagc catagataaa tttgttagaa aagtaagcca 1320
ggattaaaag tttttaaaaa tatggtagaa tccttcttta ctttttaagt cttttattta 1380
aaaaaaaaa 1389

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<210> 1191
<211> 411
<212> DNA
<213> Homo sapiens

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<400> 1191
ctggcgcagc ctttatgtct ttccgcgcgc gccaccggag cgggtgcgtc cggggctcga 60
gcgcagccga gtacccgcgc aaggctgtcc ccatcagtgc gtgtctgctg ccgggcagcg 120
gcagcatcca acctgcttta ttccctctgc ctgcagcgcc acagcgagcg agcgagcgag 180
gagggggaga gagggagtct gtctgcaaag tgctgctccc tgggtgctcag aggcggctgc 240
tccagctcca actctcattc atttcgccgg ataacatgag agatcatggc cgccttcgtg 300
cttctcagct atgaacagag accgctgaag cgcgcccggc tcgggcgcgc cgacgtctac 360
ccaccggacc ccaagcagaa ggaggaagaa cttactgctg tgaatgtaaa g 411

```

```

<210> 1192
<211> 406
<212> DNA
<213> Homo sapiens

```

```

<400> 1192
tttttttttt ttgtgttcag gtttctatct attttaaaag tgacttacgt atttttctca 60
caagggggga tgattgtaga ggagtttaga gcctgcatcg tgggtccaag ttagcatcac 120
cgttcctggc ccttccatct ttctgcttag tcatatttaa cttgtgttta ttctctcatg 180
atcagaatat gtgtctttct caactatcat atgtatgttc atcatgacat atgtgtcat 240
gaactcggcc aggaactctc gcgccatctt cctctcatct tcctcgcatc atatttcctg 300
gatctttgct atcacggacc aggagaccat tttggagcca cgggtggacc tgatacagtg 360
gcccgagctc atggacagaa aggagactca agtctgccct cgtgcc 406

```

```

<210> 1193
<211> 432
<212> DNA
<213> Homo sapiens

```

```

<400> 1193
catttctgtt gggataaaac ctaggagtaa aattatcttg tcacaggggt atacatatgt 60
tcagctttag ttgacattga caaatgtttt gccaaagaat tgcaccaatt tacactcca 120
ccaccatgtt ttgagagttt ccattgtctc agatctttgc caacgttttc attgtgattt 180
agctatctaa gcaaagtgtt ttagatgcct attagacctt caagctgaga tatcaagact 240
gttgatatg caagtctggg gtatgaggaa gaggtcttaa aaaaaagaaa tcagaaagat 300
gaagatccat gtgtgaggta ggcagcatgt gaggtagtaa gataatcagc agagtgtggg 360
acccagaaag ctgaatgaaa aaaagtgtt caggtaaaac acttctgaga ggtttaataa 420
gatgaagaga ga 432

```

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<210> 1194
<211> 433
<212> DNA

```

<211> 397
 <212> DNA
 <213> Homo sapiens

<400> 1188
 atctgcttag cttctaaata tatcatcttt gatttaatcc cagccctaca actttggaag 60
 agtgaagtat tagttcaggg atccagttag agacactgaa gtgctaaaag ccagggctcg 120
 tgaactatgg ataaaaagaa cagacatggg aacagcctgg acatggcatc agagattcat 180
 atgacagggc caatgtgcct tattgagaac actactgggc gactgatggc gaatccagaa 240
 gctctgaaga tcctttctgc cattacacag cctatgggtg agggaggcaat tgcgggcctc 300
 taccgcat gctgattcta cctgacgaac aatctggctg gaatgaaaaa gggcttgtgt 360
 ctgggctcca cggagcaggc tcacactata ggaattg 397

<210> 1189
 <211> 769
 <212> DNA
 <213> Homo sapiens

<400> 1189
 ccggctccga attcccggga aagaaactcc aacaccagca gccttaaagt atatttttag 60
 ccagaccagt tcagacatag ctagaattct gcttctctaa aaataaaaga ttctgcctgt 120
 caagaagata ccagtgaata ttctcaccoc atgccaacag ggctggattg tgggagagac 180
 actaggtagt gtacgtcaga gcaaataggg aacagttgaa gtaaggagac tgggtgtggg 240
 ggtcagccaa gactttgtat ctccatctag tcaacagatg tttattaaga ccattccttg 300
 tactagaagc tgggaatgct taaaaagata tagcccttgt tgtcactgtc ttatcctgtt 360
 gtctgtgtcg tcctgtgttg tcatagcccc attatctgca taggagacag tctttagtgc 420
 taaaatggga tattagaatg gtttaaatct gacagttgca ttccctgcaa gctgcaattt 480
 taattagaat cctgggttag ttgaaggaa tcaagatttg attgttaaat caaatgaatc 540
 taatgaagc actttctgaa ctaatacaca gtaatatggt tgaggccacg tgcaatccca 600
 gcactttggg aggcagaggc gggcagatca cctgaggtca ggagatcgag accatcctgg 660
 ctaacacgat gaaaccccat ctctactaaa aatacaaaaa attagctggg catggtggcg 720
 gggcctctgt gtcccagcta ottgggaggo tgaggcagaa gaattggcg 769

<210> 1190
 <211> 1389
 <212> DNA
 <213> Homo sapiens

<400> 1190
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 gtgctccaac acgcccttcg agctcatcgc caccgaggag accgaacgca ggatggattt 120
 ctacgccgac cccggcgtct cctctatgt gctgtgtccg gacaacggct gcggcgacaa 180
 ttttcacgtg tggagtgaag gcgaggactg cctgcctttc ttgcagctag cacaggatta 240
 catctcctcc tgcggcaaga agacgtccca cgaagtcctg gaaaaagtct tcaagtcttt 300
 cagaccttta ctggggcttc cggatgcaga tgacgatgctg tttgaagagt acagtgtctga 360
 cgtggaagaa gaggagccag aggcggacca cccccagatg ggggtcagcc agcagtaa 420
 ctgggggctc ccctgagaag gagagtgaac cccacagtaa cctaggtggg gtcactgccc 480
 ctctgggtt agcattttgc attagcactt cgaatatgga catctggctc ccagcatcca 540
 aattaaaatg aaataccttt ttaacgacca caaaatatct gtgatgagct ttgctcagaa 600
 gtgacctgaa tttcactccc gctttcagtg gggtttctat ggagttgtct tggtagcctt 660
 tgccattttg aatttagagt ccattttgtg gctgactatt ctcttaagtt tatgttgagg 720
 aattaacatt cgctgactcg aatgtagaga actctgaatg tattaaggat aggttttgaa 780
 gtccctcacag gtgaccttac tgagggaag catggcagag aagaaatgca gtctgcactt 840
 tttatgtact ttttaagtgt cgtgaagtga aaggttttgc ttataaagca tgaattttaa 900
 tatctagtca ttaactgca caagtgcaa tacaagggca ggaaaggata atcaacttagc 960
 tttggactaa gagggtgaag gaggccaga agcctttaag tgttttgcca ttactgagtt 1020
 acctgggtat gtagcgactg gttcgtgggt aggtgtaaat gttacttgct tgttcgactg 1080

<210> 1185
 <211> 566
 <212> DNA
 <213> Homo sapiens

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<400> 1185
agaccgtgtg gtggaattcc tgataccgag ctctggctgt caatggtagg agagtgggag    60
ggggagagga ggcttgggaa agggaggatg gacaaccctt ttcaacatga gtcctaggac    120
agtgacgagg gacctaggct gctgctgctc ctgccccgaa aagaaaaagc tccaatcata    180
acgaccaggc catggctggg attgctctctg ttgaagggtgc cccatgtggc agggccaggc    240
ttctaggatg gaccctgcta aggccaaagga tagagaagcc agcacctgct gcagcctggc    300
ctggtgggtg ggggtgggagt gctgggtcag ggctctcaaa ctaagctcag gtcctgctgg    360
tcccctggct tgctgggtgg caaagaagaa gtctttgagc ctctctgggc ctgtttaccc    420
ctcagaaaaa ggagctggat tatatgtttt ttgagacagg gtctcactct gtcacccagg    480
ctggagtgcg gtggtgcaat tttggctcac tgcagcttca aactcctgct tcagcctcct    540
gagtagctgg gactacagat gtgcgc                                566

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<210> 1186
 <211> 452
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(452)
 <223> n = .a,t,c or g

```

<400> 1186
caatgaatca ctgcatgngc gnggcanngn cagacacagc agagtcctta ctgtctgagc    60
ccattcatat gaagttcaaa aacaggccaa acgcatgtat agtggccaaa gtcaaaacag    120
ggtgggtaga atagcagctt cttctggaa attaccatga aagaactttc tgggtgacgg    180
aaatatacta tatcttcac tgggtagtgg ttatagatac atttataggt aaaatactct    240
tcaggctgta cttttttgtt tttatttgt atgacatata cctcagttac acacaaaaac    300
ccattatgta cctaccagaa tggttaataa aatttaacag attgacaatt ctaagccttg    360
gcaaagaggt ggataaacag gaattctcac acactgttgg taggaatcta aactagtgca    420
accactttgg aaaatagtct ggcattacca ag                                452

```

<210> 1187
 <211> 473
 <212> DNA
 <213> Homo sapiens

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<400> 1187
ggaattcgcc agagctagga acagctccaa gatggtctca gccaacagtt ctgagccttg    60
tctgggtccc ctccccttcc cagggactca ggaggaagct ttggcccttc tcccagaga    120
gaaagagccc acagagccgg aggcactgtc ccagggtctc tggggagctt ctgggtgggg    180
agatgtctggg ttgggtgtcg atcactggtc actgtcgccc attctctgct ttcggggagc    240
aggggaatgt atacagtttg aaagacaggg ctgagctccc ctgctggact gaggaagtcg    300
aggccagggt agggagaact ggggtctgtc tcctccatct gtccacctcc ttggtaaaat    360
ttgtgagggt cctggagcca cttctcacc aogccacacc taacctggct gggccttggc    420
cactgcaaca ggtctcccat tggcatgtga gcctgggccc tgccagcaag ggc                                473

```

<210> 1188

tctcactggg	atccccacacg	gctactgctt	tgtagaatga	gcagattggg	ccacagctga	180
taagtgtgtg	catatctata	atgggaaacc	ccttcacagga	gccacacctt	tacttagctt	240
acagctgcac	cagctggcac	acctgggctc	atagaaccat	ggagctggca	gtgcccttag	300
cggatcatccg	tgcaaccccc	tcattttata	caggagaaaa	agctgagg		348

<210> 1182
 <211> 403
 <212> DNA
 <213> Homo sapiens

<400> 1182	
cagtagacaa	atgcagcagc aagtcaattg tattatcaga atattgtcct cattgcatgt 60
gtagtttgag	cacagatccc aaacctttcg ggcaactttc catgatacta aaataaatgg 120
gcgcggggga	tgagaaaaatc tccgcaatgg ggaaggcccg ggtcgaccat agggagctgt 180
acttgggcct	gctctacccc acggaggact acaagttaac ttccggggcc aggcattgat 240
tcatgaagag	ggtgaggggt cccagacaaa ccgactcgta gtttagggcg ttcttggttag 300
ggggtgtgaa	ctgggaaaag ctcggcttgc tgctgttgcg tttctctcta aacacaaaaa 360
gtcggccttc	ctaaaaattt ttcctcagtc ccagcacggc ccg 403

<210> 1183
 <211> 610
 <212> DNA
 <213> Homo sapiens

<400> 1183	
gagcctcgct	ctggtgcccc gcctggagtg cagtgggtgcc atcttggtgc actgcaactt 60
ctgcctcccg	ggttcaagcg attcttcac ctcacocctt cgaggagcta ggattacagg 120
tgtgcaccac	tatgcccggc taatttttgt atttttggaa gaaacgtggg tttgctgtat 180
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tgotggcatt	gcaggctgag ccacgggtgcc cagcctgaac accctttcct ggtaaaaacac 300
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<210> 1184
 <211> 655
 <212> DNA
 <213> Homo sapiens

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gataatcaca	agacaactgc agactatata attaatgcaa gtgggacatc cctgagaaag 240
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<210> 1179
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 <212> DNA
 <213> Homo sapiens

<400> 1179
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 <211> 375
 <212> DNA
 <213> Homo sapiens

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 aagaagagat cacttacctt ctccaggtggc cacagctccc tcttgctgctg tatgacatcg 180
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<210> 1181
 <211> 348
 <212> DNA
 <213> Homo sapiens

<400> 1181
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<400> 1175

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agatcccagg	ctccctggcc	agggcagccc	ttcatgagct	ccttagtaga	ggacttatct	360
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<210> 1176

<211> 299

<212> DNA

<213> Homo sapiens

<400> 1176

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aaatggagac	ttctaggatg	ctcagctgga	tgactactca	ttctcgtgct	atagccatgc	180
gcaagtgaat	ggagcaccta	actcactgac	cagagcttat	gacgacctct	aagtcaaaat	240
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<210> 1177

<211> 422

<212> DNA

<213> Homo sapiens

<400> 1177

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gccgccgaag	gtcgacccca	acgagatcaa	agtcgtatac	ctgaggtgca	ccggaggtga	120
agtccgtgcc	acttctgccc	tggcccccaa	gatccgtccc	ctgggtctgt	cttctataaa	180
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tctgactatt	cggatcttac	tctcccatat	ttttgttggt	cctccttttt	tttgttttga	300
tcatttgatt	gctttctggg	atcttcaatc	tcttattttc	ctacatgtca	tcttttcggt	360
atttattaca	ttattgcttt	tctgcttctt	ctctatcttt	taaaatctcc	gtcttatcgt	420
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<210> 1178

<211> 426

<212> DNA

<213> Homo sapiens

<400> 1178

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gtgggcatcg	tattcctggg	cttcacccct	gaccacogct	gccggagccc	cggagtggcc	420
gagctg						426

cttattcact	tctgctggaa	ggacaggacg	tccggtaacg	tggaagacga	cttgatcatc	300
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ctgaagttca	aagcagggtc	caagcgactt	ttcttctgga	tgcaggaacc	ca	412

<210> 1172
 <211> 355
 <212> DNA
 <213> Homo sapiens

<400> 1172						
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<210> 1173
 <211> 656
 <212> DNA
 <213> Homo sapiens

<400> 1173						
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cggtgcgctt	gatggattta	gagagaaggt	ctccttctgt	tgcccaggca	caatgcactg	420
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<210> 1174
 <211> 374
 <212> DNA
 <213> Homo sapiens

<400> 1174						
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acctgcatcc	tgctcagag	ttatcgacgt	atccggaatg	tgggatcaga	ggctggtgaa	180
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gcaccgcgat	tgtgggactt	ttgagtcac	atccactctg	atccgggtgt	cttaattcgg	300
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<210> 1175
 <211> 397
 <212> DNA
 <213> Homo sapiens

cggaagcc catcactgcc gggaagtcga gcgcctgtat tgatgttact a 651

<210> 1169
 <211> 410
 <212> DNA
 <213> Homo sapiens

<400> 1169
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 ttcacaatat caagtatgag ccgcacata cttgcagatg atgatgctag 410

<210> 1170
 <211> 1303
 <212> DNA
 <213> Homo sapiens

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 actgtagcaa aggaggggga cgaggggcca gagccggaat ttcgggggag gacttgggag 180
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<210> 1171
 <211> 412
 <212> DNA
 <213> Homo sapiens

<400> 1171
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 ttggagcacc tccaacaagt acttggcgga atttcgggag ggaagatgt ccctgaaggg 180
 gaccaccgag actccggata agcggaaagg gctggcgtag atcagcagac ggacgactgc 240

<210> 1166
 <211> 387
 <212> DNA
 <213> Homo sapiens

<400> 1166
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 gtcccaacct ttaccagagt ggtcatggto aacacttgct tcctccctgt taggaaagct 180
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<210> 1167
 <211> 1087
 <212> DNA
 <213> Homo sapiens

<400> 1167
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<210> 1168
 <211> 651
 <212> DNA
 <213> Homo sapiens

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<210> 1164
 <211> 1176
 <212> DNA
 <213> Homo sapiens

<400> 1164						
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<210> 1165
 <211> 993
 <212> DNA
 <213> Homo sapiens

<400> 1165						
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gagctagacc	atgggtcctc	tttgtctgcc	cacagaattt	gtctctaggg	aaacagacac	180
tttttgcctt	gacattgaag	actcactcct	attttttaga	aagattgagg	gttgggagca	240
ctaactctgag	atatttagtt	cataacgcog	acaatgaacc	aaaaagcatt	tggtgttgga	300
tatatcttga	atggtattgt	atattttttt	aaaaggctat	acaagatctc	ttgtgaggat	360
caaatgacaa	gttgaacatg	aaaactattt	gaataattaa	catgctactg	aatatgataa	420
tgattccact	ttgaatttgg	aagtgaacatt	ttgttcattg	attccctcat	tcattctttc	480
aacaagcatc	tatgaggcag	cgtaagcac	tttagcatgc	cttgactgc	acaccactaa	540
ctgtgagatg	tgtccattgg	gccccttta	ctgagaagac	catgttctgg	cagagaacag	600
acacgtctct	tttctttccc	ctcagaccca	gagagctctt	tctccccagt	cccagagggg	660
gtcaggctgg	ctgacggccc	tgggcattgc	aagggacgcg	tggaagtga	gcaccagaac	720
cagtggtata	ccgtgtgcca	gacaggctgg	agcctccggg	ccgcaaaggt	ggtgtgcggg	780
cagctgcgat	gcggaagggc	tgtactgacc	tcaaaaacgc	tgaccaagc	atgcctatgg	840
ccgaaaaccc	atctggctga	gccagatggc	atgctcagga	ccagaacctc	cccttcacga	900
ttgccctttt	cggccttttag	gggaagacac	cctgttccat	gtagaataca	cgtcgggtcca	960
tgggagggaa	cgctgtccg	ccaaagacta	gcc			993

<210> 1161
 <211> 390
 <212> DNA
 <213> Homo sapiens

<400> 1161
 aattccccggg tgcacgattt cgtggcgccc ggaactctcg aggccgggaa gtcctctggg 60
 ctggagttcc ctgagcgcca gaggctggca gctgcgggtt gatttctccg atgtccgggtg 120
 ttatctccat gtctgccccct ttcttctctgg ggaagatcat cgaatgccatc tataccaacc 180
 ccactgtgga ctacagcgac aaactgaccc gcctctgcct tggcctcagt ggcgtgtttc 240
 tgtgtggtgc tgcgcgaat gccattcgtg tctacctcat gcaaaacttca cgtcagcgcg 300
 ttgtgaagag gctgagaact tcgttattct cctccattct ggggcaggag gttgctttct 360
 ctgacaaggc tggcacaggg gaattgatta 390

<210> 1162
 <211> 897
 <212> DNA
 <213> Homo sapiens

<400> 1162
 gcacgaggaa aatccgaagt gccgcggaaa gtggaggtga gggccgcccc ccctagaggt 60
 gcccgtccga gaggcagagc tgacaaggaa ggtttctgagc gttttgctgg caaagggatt 120
 tcttacaacc tccaggcatg cgtctttctg ccctgctggc cttggcatcc aaggctactc 180
 tgccccccca ttaccgctat gggatgagcc cccagggctc tgttgagac aagaggaaga 240
 acccccatg gatcaggcgg cgcacagtggt ttgtggaacc catctctgat gaagactgggt 300
 atctgttctg tggggacacg gtggagatcc tagaaggcaa ggatgccggg aagcagggca 360
 aagtgttca agttatccgg cagcgaaact ggggtggtcgt gggagggctg aacacacatt 420
 accgctacat tggcaagacc atggattacc ggggaaacct gatccctagt gaagccccct 480
 tgctccaccg ccaggtcaaa cttgtggatc ctatggacag gaaaccact gagatcgagt 540
 ggagatttac tgaagcagga gagcgggtac gagtctccac acgatcaggg agaattatcc 600
 ctaaaccoga atttccaga gctgatggca tcttccctga aacgtggatt gatggcccca 660
 aagacacatc agtggagat gctttagaaa gaacctatgt gccctgtcta aagacactgc 720
 aggaggaggt gatggaggcc atggggatca aggagaccgg gaaatacaag aaggtctatt 780
 ggtattgagc ctggggcaga gcagctcttc cccaacttct gtcccagcct tgaaggctga 840
 ggcacttctt ttccagatgc caataaagag cactttatga gtcacaaaaa aaaaaaa 897

<210> 1163
 <211> 979
 <212> DNA
 <213> Homo sapiens

<400> 1163
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 ccaccacaca tgataaaaca ctgtctttag ctatgaaggg agtgtgacca actttgggggt 120
 tgctggattg aaagttcatg agtgaagggtg acccaaagaa agtgatgctt agcttgagtc 180
 ttaagattaa gtacaagttc attaggcaga tagaaggaaa gaattccaag aggcaacagt 240
 gtgtgcaaag cctttaatta gaatgtttgt attttttaca tcatgcataa cttcacattt 300
 gtgattaatt agtaattatt tcaatacttg taagctcatc tgcctcagat ttaatacataa 360
 tacatgaatt aaattaatca aattaaggaa cagcaattta gaaagaaaca cactttaaaa 420
 aatcaaaaatt ctcaattcag gcagctctgtt tctatcattt ggtattctac tcctttaaaa 480
 atttcatatt gcccaacaaa aagtgggtat ttttactgtt tttggagatg actgaacaga 540
 tgaaggcatc agatgccttc atcagctggg attttgccta agatctattt aagataacct 600
 tttcttatat tttttactta atattgggca taatcgatc attcaagatt aagctcgggt 660
 tatttctttg ataagaactg aatgtggccg gagcgctaga tgtcacgcct gtaateccag 720

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gcggggggag gggggcaggg aacgggtgtct gtcttcattg cagctctgtc tgcagagcca 480
gcactgtgat acctcatagt aggtgctcag tgaatgtctg tgaagtgaat tactatctag 540
acaaggatga gactggatg actctccaaa gctttccac ctccaaaacc tcggcttctg 600
gggaatctcc agtagggggc actgtggaca cggttcgcat ctgcctccca aggctgggt 660
ccgcgtc 667

```

```

<210> 1158
<211> 430
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(430)
<223> n = a,t,c or g

```

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<400> 1158
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gccttgcca tgctccagga gagaagggtg ctctacgtgg tcttcacgga ttcccggtgc 180
ttcctgggtg gcatgtgctt tctgaccttc atccaggcgt taatgggtctc tgggtacctg 240
agcagcgtaa ttaccaccat tgaaaggcgc tacagtctga agagttccga gtcggggctg 300
ctggtcagct gctttgacat cgggaacctg gtggtgggtg tgttcgtcag ctacttcngc 360
ggcggngtc ggcggcccc gtggtgcgc tgggtggact cttggatctg gaagggggcg 420
agatgattgg 430

```

```

<210> 1159
<211> 440
<212> DNA
<213> Homo sapiens

```

```

<400> 1159
tttcgtgcag aggaggggtg cactcctacc atctagttgt tttcaaagt ccaaggatca 60
gttatcaatg gccaatgtgc cctcttctgc tttgccctac ataatgaaag ggcaatcagg 120
tcaatggcaa tgggaatcag ttaaaaagga aacatgaatc gatgtgtcct gtgtcactca 180
cacagaatac tgtcagactg atggaggcag gtctccctca gaagcaggca gaaagggctg 240
atgagctatt tgaggcaggc ttggtaat ttcgtcaagct tgatgaacga gtactgaatg 300
ctctcatata gctctgtggg gcttcaatgg ttcaaagaaa gtgatttctc acaccttagg 360
ctcttagaga tttcttttcg ctgattattt gttctaggac aaaatacatt tctgtgtcag 420
gtgagatcag caaaciaagg 440

```

```

<210> 1160
<211> 430
<212> DNA
<213> Homo sapiens

```

```

<400> 1160
tttcgtgggg cggccgcggg ggcttagcga taggcttgag gaccttttcc ttgccgggtt 60
ccgggtcgga gagcggtccc ggacggcagc tatgaagcgg tacgtgcgca tctgttact 120
ggcgagggtg gcggaacacg tcgctgatec tgtgcctggt gggcgaggag ttccccagg 180
agaagccgat cacacggacc aggagctgag ggaggagatc cacaaggcaa acgtggagcg 240
tgtggtgcat gacgtctctc agggaggccac cattgagaag attcgtaata agtggatccc 300
actggtgaat ggggggacca cgcaggggce cagtgggcat caagtcatac ctgccgtcgg 360
ggagatccat ggaggccgag ctccccatca tgagccagtt gaccgagatt gagacctgcg 420
tggagtgttg 430

```

<400> 1154
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 atgccagtga ttgagtccttg agggcggggct gcctatagga tacctcccaa ccatttcagc 120
 tccagatgct gaacatccct atgccccctc cccagtagt ctctgttggga tcttacagggt 180
 agggagcaga ctgaggcttg ttcaccagaa cagggtgcaag ccacattgtt gccaaagacct 240
 gtctgaagcc ggattctccc cactgtcttc ttcaaccocg cctcttactc cttctgtggg 300
 actgctctcc cctcctgtga ggctagatag atgcctgtga tccagcccaa tatggaaacac 360
 cagcaccgag tccggggaccc cgtgatcact ctgcaagcga cccctgacc cctgagttaa 420
 tcaagccac cag 433

<210> 1155
 <211> 397
 <212> DNA
 <213> Homo sapiens

<400> 1155
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 ccagggagca tgtagctgct ggctccggg acactttgcg ttcgggctgg gagcgtgctt 120
 tccaogacgg ogacacgctt cctggattg gcagccacac tgccctccgg gtcactgcca 180
 tggaggagcc gcaatcagat cctagcgtcg agccccctct gagtcaggaa acattttcag 240
 acctatggaa actactttct gaaaacaacg ttctggtaag gacaaacgggtt gggctgggga 300
 cctggaaggc tggggggctg gagggctgag gacctggctc tctgactgct cttttcaccc 360
 atctacagtc ccccttgccg tccaagcaa tggatga 397

<210> 1156
 <211> 619
 <212> DNA
 <213> Homo sapiens

<400> 1156
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 aggcctgagg gatcactaac ccatttttg tccctccctt tgggaagcagc agggctgagg 120
 gactcaccga gcctgccatg agccagactt aacaccccc agaccctcct tccgggagga 180
 cagctgctgt tgttacacgt tctggaagag gaaccaaag cactctcagc tgctgtggcc 240
 cagggccctt agagccctgg ctcgaaaaat aacctgggct gtgcgacctt ggagcctcgc 300
 ctgccctggc tcacctgggt ggtgctcccc cagccccctgc agccccctcg gcgggtgcac 360
 gcagacattg ttcttgaggt agatgatctc tccatccagg acagaggggg acccgctgcc 420
 gctgccaccg ggggtgaggg tcaggaggtc cgaggctttg gaggagggcc tgcgaaggag 480
 gcggccacga gacattgccg ggcaagtgtt tccatcctcc gcatgcgtcg gcccgggcag 540
 ggctcgtcaa gacctgcccg ggtcccgtg cggggggccg attcgcaccc gctccgagag 600
 ccgccaccgt cgctccgc 619

<210> 1157
 <211> 667
 <212> DNA
 <213> Homo sapiens

<400> 1157
 attcatagct gtacatttct acttcagttt ttattatcca ttacataaca tacatgcttg 60
 attatttgc tcaaggaaat acacctttat aagtaatact caataactac tgggtttgag 120
 aatgaagggt tcagaacgaa tgagattgtc ctatgaaaga agaggcagga gccagggagg 180
 aggatccac ccggccgggg ctgagccagg aggcagggcc attggggcag ggtggcagtc 240
 caaggaaccg ctctggggaag gtttgcaaaag gtcggggctc cccctgccag gtgatcgaat 300
 tatcgtggag tgtctggaag gcgggggaag ttttgttgag ttaccaaact aactcagacc 360
 aactggaaac caagtggagt ttctacagga ccaactagaa tagggatcag ctacatgggg 420


```

tccaaaccca cgaggaactg ccaaggagcc ccctcagaca caacagcgtg cgggggtcaaa 300
gacagccgcc ccccatgtc agtgggtctag gatggccagt gaaggcccca acatcccatg 360
tcctggggcg cgccatagtg acaagcagtt tctgatttgc actata 406

```

```

<210> 1152
<211> 1139
<212> DNA
<213> Homo sapiens

```

```

<400> 1152
tgcccaggaa tgagcagacg atgtgcttgt gaggttagaa ggaagatgca gtcagctgtg 60
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tgcgctggga gcagggagag ataaaagtga gaactgggtt ggagaggagt gcttggacag 180
tcactgcctc ccatttcacc tgtgcacaaa ctctgatgt gagttgattc agtgaggagg 240
ggccagccag gtcccgtgg gcatcctcct agcactttct ctcccagtc cctaggatgg 300
gtggctcaca atccaggag atgcctaggg ctgcttcttt tctagatatt ccagtcagag 360
gaggtccag cagaaggag tgtccagctg tggctgtggg gtgcctgggc ctacatctt 420
gtcctcgctc tggtcaggac ccagcacaga ttaggatgct gccttcagct catccccagc 480
acatattacc aatccgagtc atgctgcctt gagggaaaca ttggtcccca ggtccaaaag 540
aataccacta aaggagagac aaccgggcag gactgtggc tactcctgt attcccagca 600
ctttgggagg ccgaggtggg cggatcacga ggtcgggaga tgggacggg cctggctggc 660
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gcctgtggtc catatacttt gggggctgag gccgaaaaat gggatggtca ccgccaggcg 780
gcccctcctg ggaccacaga gggggccttg gacttcaact tgggggaagg aggagaatgt 840
gtttacaaga tttaggacgg cggacggagg taaaacgacg gccgcggtg ttatgagagg 900
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gatctaccgg gcgtacgtat gcatgaagca acgaacgtag agtacctagc atcgaaccta 1020
ggtacgtaac gacgcgaacc acgaatctag ggatgctagc atccgtgcgt aggaacggat 1080
cgatcgttcc tatctaccgc acgcatggta gtgaatgatg ctacgctacg gacggcaca 1139

```

```

<210> 1153
<211> 439
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(439)
<223> n = a,t,c or g

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<400> 1153
cggaattccc gggtcgagcg ctactgcgcg gcggagcgcg tgtgtctgtg cgaggcctgt 60
ttogtttagg agcaccgogg ccacgagctg gtgcgctgg agcaggagcg cgcgcttcag 120
gaggtgggct ccggggggcac actcgggtga gccggggctg gtgaccgacc gcgcgcgagc 180
gggcccagga ccttggaccc ccagtcctc ccgggttggg tcttaatctc ctctctaac 240
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tgggaaggga ggaaggaggg acgtgagaac aggacaagga cgcgaagagc gggcagggga 360
cctgaagccg ggccgggggtc tatgggggtg tangcgggag ggagccgggt taggcccgcg 420
gggttcgggt agcgtggct
439

```

```

<210> 1154
<211> 433
<212> DNA
<213> Homo sapiens

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caattcacaa gtaatgtttt cagatttcag agcaatccac actcagcaat attttgcagt	1080
tctgacagac tcaattgtct tctaattgctt tcatcattga tttctgtgtt attcacttct	1140
tgctgtacac acctgcctta gagacactag attcaagaat gttccaagaa ccagatcctc	1200
atacataaca aattcgtaac tgctagaaaa ta	1232

<210> 1149
 <211> 699
 <212> DNA
 <213> Homo sapiens

<400> 1149		
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ccacaaagat ccttttttgg caagttgtta cgggaattta gacttgtagc agctgaccga	120	
agcatgggaa gatacatgct ctttggtgta ataaacttga tatgtactgg ctctctgctt	180	
atgtggtgca gttctactaa tagtatagct ttaacatgcc tatacttacc tgaccatttt	240	
tgatcttttt agtttaatga catgtttaat aagttactgg gtaacattga ggaaacctag	300	
ccctgtctat tcatttgggt ttgaaagatt agaagtcctg gctgtatttg cctccacagt	360	
cttggcacag ttgggagctc tctttatatt aaaagaaagt gcagaacgct ttttggaaca	420	
gcccagagata cacacgggaa gattattagt tgggtacttt gtggctcttt gtttcaacct	480	
gttcacgatg ctttctattc ggaataaaac ttttgottat gtctcagaag ctgctagtag	540	
gagctggctt caagagcatg ttgcagatct tagtcgaagc ttgtgtggaa ttattccggg	600	
acttagcagt atcttccttc ccgaatgaa tccatttgtt ttgattgata ttgctggagc	660	
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<210> 1150
 <211> 811
 <212> DNA
 <213> Homo sapiens

<400> 1150		
gcacacagtt acgttttctgg cttgggttagt gaccctacct tggctgtggg cactgaggtg	60	
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ctgtctgctt gagtgcatga ctccgggagcc ctgtcaccgc acacacgcca tctgtggcagc	180	
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ttgttttagc ctctctaagt ttaagagtca taatgagggt agtatgggtt atcgggaaaa	420	
gtgtctttat acattcactc cttttaacct cacatggaac ctgtgtggaa ggtcctattt	480	
ctocattttg taggcaggaa attcagactc agagaagtta tgtgaattag ccacagttat	540	
aaccttactg gttagaacct agatacataa ctacactcag agaaagagaa gccagtcctt	600	
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gcacaatctc acaactgtaa tccaagcac aaaggagggc taagacagga ggaccgcaag	720	
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acagaggtag acctgtctct caaaaaaaaa a	811	

<210> 1151
 <211> 406
 <212> DNA
 <213> Homo sapiens

<400> 1151		
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aattctaact tcgggggagt actttacttt gatattccac ttgcaaaaaca aaacctactga	180	
ttcctttctg cttgacaaga ttgagtcgct atcaaggagc tgcccgtgct ttggaaatgg	240	

ctaatttttg catttttagt agagacaggg tttc

814

<210> 1147
 <211> 1255
 <212> DNA
 <213> Homo sapiens

<400> 1147

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gaacgggagg	tccgaggaac	ccoggaaagc	ggctgtggcc	ccggccaccg	cagtgaccgc	180
gggagaattg	tgtacataat	gatgttcgtg	gcggcgggtg	taggcgtccg	tgaacttgct	240
ctcgtggcgc	cgggccttga	aggtcactgc	agggtcctga	ctgaagaggt	atgaggggtg	300
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cggggtgcct	gtccatagga	gttgggtgtg	tccaggcggc	agctggaata	agctgtgtcc	420
tgggagaagg	gtgtcccacc	gctattgggg	gtgacagagg	aggagccgga	gccacagcct	480
gcagacaggc	ctccatcctt	gaggcgcttc	agggcatctg	acagctgcag	ggtctcattc	540
acgattggag	agacagcgtc	cagctcgccc	actgggaggg	tctggggggg	gtatcggcca	600
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cgacgaccgg	gggatcttcg	acaatttcca	ccgggcgggt	gctggacatc	gccaggctga	1020
aatgctgccc	atcgtagcgg	tacagtttat	gatgcccctt	tttcagagcc	gggtcaatca	1080
tcaacttgta	acttctocaa	tgggtggttc	tcctctcgcc	ogaaggcccg	ggctgcccgc	1140
ggggctgctg	gtggtgggtg	tggggggggg	gactgttctc	catgcccgtt	acccaacctt	1200
cctcctcttc	ctcctcctcc	tccttttctc	cctcccctct	ccttcctcga	cgaaa	1255

<210> 1148
 <211> 1232
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1) ... (1232)
 <223> n = a, t, c or g

<400> 1148

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aatcatcttg	gggaccgtgg	tggagggtgaa	acogatgtca	ggcaaggaca	ggttggagag	180
gaagaagtac	atgggggtgg	ggagggtggga	gtcagggtctg	aogtccagga	tgatgatcag	240
gttccccagc	accgtgacca	ggcacatgga	caggaacagc	ccagcaagga	ccagctgccg	300
ttctggatcc	ttatggaaat	atatgaatat	gctattgatg	atgctgtcag	aacaggcaaa	360
tttgaagaat	tgagaggggt	cacagacaaa	attagagatt	tccacattct	tgatgatggt	420
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agacatctgt	tagattctgt	gggtctgcat	aatttggaca	cctttgccta	gaaacgaggg	960
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451

<210> 1144
<211> 401
<212> DNA
<213> Homo sapiens

<400> 1144
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accattgctg gtggccacag ccctgctggt ggctttacta ttactttga ttcaccgaag 180
aagaagcagc attgaggcca tggaggaaag tgacagacca tgtgaaattt cagaaattga 240
tgacaatccc aagatatctg agaatcctag gagatcacc acacatgaga agaatacgat 300
gggagcaca gagggccaca tatatgtgaa gactgtagca ggaagcgagg aacctgtgca 360
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<210> 1145
<211> 479
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(479)
<223> n = a,t,c or g

<400> 1145
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gcgaactta acccgggggg gggcgccgc gggagggggc ggggcacgtg agcgatggag 180
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<210> 1146
<211> 814
<212> DNA
<213> Homo sapiens

<400> 1146
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<211> 775
 <212> DNA
 <213> Homo sapiens

<400> 1141

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ccttttgcca	gggcatttgc	agagcagcaa	tggtgggaat	ccactcttcc	catccccag	660
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<210> 1142
 <211> 466
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(466)
 <223> n = a,t,c or g

<400> 1142

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aatgtttcca	taagcctggg	tccaagcata	tggtgacatt	tatgtttctg	gtttttgtg	180
ggcttggttt	taccagagca	acagataatg	ttatttgcta	ctttacttag	aatggcacag	240
ggatgtgact	tcgcattagg	caatgatttc	ttaaataata	caacaaaagc	acaagcaaaa	300
aagaaaaatt	agataaattg	gacttcatca	aaattaaaaa	ctgctgtacg	tcaatggacg	360
ctattgagaa	aacagaaccc	ctcacaaaat	ggacaaaagc	atttgtaagt	catgtttctt	420
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<210> 1143
 <211> 451
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(451)
 <223> n = a,t,c or g

<400> 1143

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<210> 1139
 <211> 443
 <212> DNA
 <213> Homo sapiens

<400> 1139						
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cggggagggt	tgggtggggg	gaagcggtg	taacttctac	gtgaccatgg	tacctgttga	180
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cggcagccgg	catctccctt	gggcgagagg	ctgcccagtg	tttaccttcc	tgtcatctgt	300
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<210> 1140
 <211> 412
 <212> DNA
 <213> Homo sapiens

<400> 1140						
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<210> 1141

<400> 1135

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<210> 1136

<211> 983

<212> DNA

<213> Homo sapiens

<400> 1136

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<210> 1137

<211> 274

<212> DNA

<213> Homo sapiens

<400> 1137

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<210> 1138

<211> 1664

<212> DNA

<213> Homo sapiens

<400> 1138

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<210> 1135

<211> 412

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (412)

<223> n = a,t,c or g

<400> 1133

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<211> 4585

<212> DNA

<213> Homo sapiens

<400> 1134

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<210> 1131
 <211> 605
 <212> DNA
 <213> Homo sapiens

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<210> 1132
 <211> 852
 <212> DNA
 <213> Homo sapiens

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gagaagcaga	tcgtcctgaa
gaggaccccg	actggagggg
cagggagaag	aggatgatga
gctgacctgc	tcttctgccc
tcggcagagg	acgtccactc
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<210> 1133
 <211> 1578
 <212> DNA
 <213> Homo sapiens

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<210> 1129
 <211> 375
 <212> DNA
 <213> Homo sapiens

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<210> 1130
 <211> 1640
 <212> DNA
 <213> Homo sapiens

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<212> DNA

<213> Homo sapiens

<400> 1125

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<210> 1126

<211> 427

<212> DNA

<213> Homo sapiens

<400> 1126

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<210> 1127

<211> 321

<212> DNA

<213> Homo sapiens

<400> 1127

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<210> 1128

<211> 847

<212> DNA

<213> Homo sapiens

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(505)

<223> n = a,t,c or g

<400> 1122

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<210> 1123

<211> 481

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(481)

<223> n = a,t,c or g

<400> 1123

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<210> 1124

<211> 374

<212> DNA

<213> Homo sapiens

<400> 1124

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<210> 1125

<211> 1041

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 <212> DNA
 <213> Homo sapiens

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<210> 1121
 <211> 523
 <212> DNA
 <213> Homo sapiens

<400> 1121						
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<210> 1122
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 <212> DNA

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<210> 1119

<211> 3309

<212> DNA

<213> Homo sapiens

<400> 1119

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 <223> n = a,t,c or g

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 atgtccctc cacaaggcct catgaccag cagaatttca tgctgatgaa gcagcggggc 300
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 <211> 939
 <212> DNA
 <213> Homo sapiens

<400> 1117
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<210> 1118
 <211> 745
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n = a,t,c or g

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 <212> DNA
 <213> Homo sapiens

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<210> 1115
 <211> 981
 <212> DNA
 <213> Homo sapiens

<400> 1115		
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<210> 1116
 <211> 414
 <212> DNA
 <213> Homo sapiens

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<210> 1113
 <211> 3457
 <212> DNA
 <213> Homo sapiens

<400> 1113						
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<210> 1110
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 <212> DNA
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 <211> 910
 <212> DNA
 <213> Homo sapiens

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<210> 1109

<211> 1505

<212> DNA

<213> Homo sapiens

<400> 1109

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aaa						1203

<210> 1107
 <211> 723
 <212> DNA
 <213> Homo sapiens

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tattgcttcc	tatccttgcc
gatgggcaag	aaattctccc
gagagagagg	ttttttgttg
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ttt	

<210> 1108
 <211> 3314
 <212> DNA
 <213> Homo sapiens

<400> 1108	
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ctcgcccgcc	ggtgaccacg
ggaagaggac	gactcggcgg
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gctgtttttt	attttttaaca
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gttcttgac	aactgtaaat
ctttggttcc	cagtgcacat
atgaatgggg	tagtagccca
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tatatatata	tatacatata
tgaaatgact	aatttggtgc
aagccttgaa	ttgaaattta
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<210> 1104
 <211> 393
 <212> DNA
 <213> Homo sapiens

<400> 1104
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 aggagacac acagcaccga atccaataaa ctgaaggccg gccactcctt tggttacaac 240
 taactgattc actgaaactc ctgttaaaac tgactgtggg tgtggagcca acagcaaagg 300
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 aaatcggcac caccaagaac tcccgtgcca ctg 393

<210> 1105
 <211> 778
 <212> DNA
 <213> Homo sapiens

<400> 1105
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 aatttacatc ctggtaaggc tgtagcact ttaaattgat ttggtatttt taaaaactta 360
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<210> 1106
 <211> 1203
 <212> DNA
 <213> Homo sapiens

<400> 1106
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agcttaga 1208

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<210> 1102
 <211> 1241
 <212> DNA
 <213> Homo sapiens

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<400> 1102
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<210> 1103
 <211> 406
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1) ... (406)
 <223> n = a, t, c or g

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<400> 1103
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gtgtgcttat gctcaatttt agtagataat actaagacat ttcccagaat ttcccaacat 180
tgacacactc accagaagta tttgcattcc agctgctcca gcacccctac cagcacttag 240
taatatctgt ctttttaatt ataggaaatc tgggggattt tataatttca tacatttgga 300

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atgaggctat

670

<210> 1099
 <211> 376
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(376)
 <223> n = a,t,c or g

<400> 1099
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 gaatttatgt gtaaaatgtaa atataaccct ttgaggaatt gctagacttt ttcagagtga 180
 gtgaataatt ttctattctc accaacaatg tatgagggtt tcaatgtctc cacaaccttg 240
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 tccaacagac ccaaaaaaagg aaggtttcct tccacatatt ggaggggaaaa gtgaataaat 360
 taaataataa cttacn 376

<210> 1100
 <211> 774
 <212> DNA
 <213> Homo sapiens

<400> 1100
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 actgtataga ttttgatatt tgaatccctg tggtagtctc tcgtgttgtt ctgttcttgg 180
 gatgtcattg gcaatggcta catctcggta tggttttttt gtatttgtcc tgttatgagt 240
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 tcatgtottt tactcatttt tctattgaac gtttgatata tttcccttaa cattttttgc 360
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 ggctgaggca cgacaatggt gtgaacacca aggggcagag cctgcagtgc gccgagatcg 720
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<210> 1101
 <211> 1208
 <212> DNA
 <213> Homo sapiens

<400> 1101
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 tgtggcctga ggaaggggtg aaatagtagg ggggaaatgt ttgtaagctt tgaaaaagat 480

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<210> 1096
 <211> 285
 <212> DNA
 <213> Homo sapiens

<400> 1096						
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gaggctgagg	caggaggatt	gcctgagccc	aggaggtgga	aactgcagag	agtcatgata	240
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<210> 1097
 <211> 854
 <212> DNA
 <213> Homo sapiens

<400> 1097						
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agggcagtaa	ttaatatgtt	gtatgatcac	atgataaaca	gacctagagg	ttataatagt	180
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tttagctata	tattaaaaga	gtaagaagct	tgtacctatt	atgagaaagt	cctacttact	360
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<210> 1098
 <211> 670
 <212> DNA
 <213> Homo sapiens

<400> 1098						
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cagaaagagc	tttcccacgc	agctgccaaag	atggcagagg	ggcagtcctg	gtgcttgata	180
gctgagtaaa	actcctgggc	tacctggagg	ctatcatgac	ccagcagaga	aagtatgggt	240
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ctaggctgcc	ctagatcacc	tcaagggtgt	tgatagaatc	cccctgccat	atgacaagaa	480
aaagcagatg	gcggtttctg	ccacctcgga	gggtgtacgt	ccgaagcctt	gaagaaagtt	540
tgctacactg	gggcactggg	ctcagaaggt	tgactggaaa	taccaggcaa	tgacagccac	600
catggggggg	aagagggaag	tctattatca	gaagatctgt	taccagaaga	aaaacagctc	660

tctactcaact	cttactggag	gactgtcaag	atgtcaccag	cacctgccta	gctgtcaagg	2040
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tgaccattcc	agggggaacg	cctagtttga	aaatattatg	gctgaaccaa	gagccagaaa	2160
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gcctcgcttg	catgaagaag	gaacgatgcc	tttttcaatg	gtgtctccct	cccattgtgc	3000
agaagagctt	ttgttggctt	ctctcccgag	cttgtgcctg	attctgtggc	ccaaaaaat	3060
cattgttaac	atcttcatgt	gtttcattct	gatctttcat	tcatatatat	gatgcctagc	3120
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aatcc						3305

<210> 1094
 <211> 860
 <212> DNA
 <213> Homo sapiens

<400> 1094						
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tcgcccctcc	cccttgcggtg	actagacctc	gcctaagctc	gagaagcctg	tcgagcgaaa	120
acagatttcc	cgggtcgacg	atttcgtctg	tggccgagtt	gctgttgccg	ggtgatagtt	180
ggagcggaga	cttagcataa	tggcagaacc	tgtttctcca	ctgaagcact	ttgtgctggc	240
taagaaggcg	attactgcaa	tctttgacca	gttactggag	tttgttactg	aaggatcaca	300
ttttgttgaa	gcaacatata	agaatccgga	acttgatoga	atagccactg	aagatgatct	360
ggtagaaatg	caaggatata	aagacaagct	ttccattcatt	ggtagagggtg	tatctcggag	420
acacatgaag	gtggcatttt	ttggcaggac	aagcagtggg	aagagctctg	ttatcaatgc	480
aatgttgtgg	gataaagtcc	tccctagtgg	gattggccat	ataaccaatt	gcttcctaag	540
cgttgaaggga	actgatggag	ataaagccta	tcttatgaca	gaaggatcag	atgaaaaaaa	600
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tggctgtctt	gtacgtgtgt	tttggccaaa	agcaaaatgt	gccctcttga	gagatgacct	720
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<210> 1095
 <211> 537
 <212> DNA
 <213> Homo sapiens

<400> 1095						
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agcgcgcttt	gtcccgcgcc	cagatcctgg	gggtgagcgc	gtggagaagg	ggcgggcgcc	180
cgcgagccgt	gaatcacctc	ctcctcttgc	tgccctcagc	ccgccgccac	ctttccattc	240
agtgcgccaa	catggctgga	gcgcggcgga	gaataagacc	acagcttgcc	aaagagaaga	300
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<210> 1092
 <211> 811
 <212> DNA
 <213> Homo sapiens

<400> 1092
 gctcgacttt tttttttttt gagaatttaa aatcttattt attgttttgc aaacaataaac 60
 ttagacattt cttaatat tttaaaacccc aacacaaagt aataaatttg gcttcttttc 120
 cccacaaaaa tgggaaatac ctttcagtaa aggaaatttt aaattatttt tacacaccag 180
 ttggtgtgtg gaatttatag ctctttaaca tatgacatca gcaaaaaataa ttagcattaa 240
 ctgattaata cataaaacaa tttaacaatca tatggttaagc aggaaacaaa aaccgaccag 300
 aaaacaccgt tttatagtaa ttttcaaaac gataaattat tacagtatac tttatcccca 360
 acatctctga gcccattaat agagtacttc tatacatata aagatataat aaaaggatac 420
 ggtattttatt gcaacagcaa attaaagggt gttaaaatat atgtaactta aatacccccc 480
 caacattgat atagtggctt cttattcctt aaacatagaa attccactct tcattgtaga 540
 aagataaagt tctttcatca aaaggcacat tcttatcttc gaggatgatt ggcatacaac 600
 aacgtgtgtg catcatcctc atcatcctgt tctaaagggt tcaattccat attttctatg 660
 ttagtgtcca aaactccata tctcctagtc tttcgggttc ttcttctcat cctgaccgtc 720
 ctgaccacga agtacaccag caccgcgccg ctaccacca tcaacacggt cagggcccg 780
 tgggtcatgg gcttgcgcgc aggggtgggg c 811

<210> 1093
 <211> 3305
 <212> DNA
 <213> Homo sapiens

<400> 1093
 gggctctcct gggcctgcag cagccagcac agagcttgat cctttcccg agttcagtta 60
 tgggtgtgag aggtttgcaa ggatttgtgg gaagtacctg cccacatata tgtacagtag 120
 taaatttcaa agaactggca gaggaccacc gaagcaagta tcctggatgt acccctacca 180
 ttgtggttga tgccatgtgt tgtctcagat attggtatac tccagaatct tggatctgcg 240
 gtggccagtg gcgagaatac ttttctgctt tgcgagattt tgttaaaact tttacggcag 300
 ctgggatcaa gttgatattc ttctttgatg gcatgggtgga gcaggataag agagatgaat 360
 ggggtgaaacg aaggctcaag aacaacaggg agatattccag gatttttcat tacatcaagt 420
 cacacaagga gcagccaggc agaaatatgt tcttcatccc ctccagggcta gctgtgttta 480
 cagatttgc tctaaagaca ctgggccagg aaactttgtg ttcttgcag gaagcagatt 540
 atgaggtagc ttcttatggc ctccagcata actgtcttgg gattctgggg gaagacactg 600
 attacctaat ctatgacact tgtccctact tttcaattag cgagctctgc cttagagacc 660
 tggacaccgt catgctctgc agagagaagc tctgtgagag tctgggcctc tgtgtggccg 720
 accttctctc tctggcctgc ctccctggca acgacataat cccagagggc atgtttgaaa 780
 gctttaggta caaatgctta tcttctaca cctctgtaaa agagaacttt gacaaaaaag 840
 gtaacatcat attagctgtg tcagaccata tatcgaaagt tctttacttg tatcaagggtg 900
 agaaaaaatt agaagagata ttacctctgg gaccaaaca agctcttttt tataaaggaa 960
 tggcatcata tcttttacca ggacaaaaat ctccatggtt tttccaaaaa cccaaagggtg 1020
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 cagaccctga acccaggcaa gaagtccca cgtgtacagg cctgaatcc aggcgagaag 1260
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 cagactctga acccaggcaa gaagtccca tgtgtacaga ctctgaaccc aggcagaag 1440
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 ccaggcaaga agttcccatg tatacaggcc ctgaatccag gcaagaagtt ttaatacgga 1560
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 ccatgggttc agacactgaa atcttaaagg ttgctagaac acatcacgtc caagcagaaa 1860
 gctacctggt gtacaacatc atgagcagtg gagagattga atgcagcaac accctagaag 1920
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<400> 1088
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 gagaggctct tatataactct gaataactagt ctttgtcaga taagtgattt ctcaacattt 180
 tctccaagtc tgtgggggtgt atttttattc tcttcacagt gtattttgca gagcatgggt 240
 tttaaatttt atgaatccaa tttgtcatgt tttttagtgg atcaggcatt tgacatcata 300
 tctaagaact ttttgtctaa cttcagttca tgagaatttt cttctggttt cttttttaaa 360
 gaatatgctt tgaattctaa catttacgtg taaaatccat ttttagtt 408

<210> 1089
 <211> 403
 <212> DNA
 <213> Homo sapiens

<400> 1089
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 tgccggagcc gcctggcgcc cccaacgcaa ccctgaacag ctccctgggac agcccgaccg 180
 agccagctc cctggaggac ctggaggcca cgggcacat tgggactctg ctgtcagaca 240
 tgggcgtggg gggcgctggg gacaacgcct acacgctgga ggtcaacagc cgctacatgc 300
 gtgcgggtgg cataatgtag atacacttgg cactgtgatg ctgacccact gctgtacctg 360
 tcaacatccc cttatcgtgg acacctacgg caccaaggag tgg 403

<210> 1090
 <211> 400
 <212> DNA
 <213> Homo sapiens

<400> 1090
 ttcaaacatt acaatcacac tgacataaat gaaaaagtat gacaatacat tttgttggtgta 60
 aggctgtggg caaataggca atcatatatt gctggcagga atctaaatto atacaagcct 120
 totggagtaa aattcagcaa tatttagcat aaatatctat acacatactt ttogaccag 180
 catttctttt tctaggagge taccctggag gcacacagag tgtattttct acaggagtat 240
 tggttagcag tgttttctac aatatgaaaa tgctacacac aagggtactt attgcagcat 300
 tgtttataat agtacaatac tggaaacaat caaaagacca ctacatataa gagtgtgtgt 360
 gcatttgtac aaaagaaaca caggcatgat aaactaaaga 400

<210> 1091
 <211> 456
 <212> DNA
 <213> Homo sapiens

<400> 1091
 tgggcgcggg tttttgatac ccctgagaac gctccgacca tgettacggc aagcttgccc 60
 cgaggcgag ctggctggga tggctggagt ctataatacc ctcttcctgt ttgcagctac 120
 ctttctggac ctagggggga gcattggaac tccctagggg gaaagagctc gtgcccactc 180
 cccttgccca ctcttgtgtc cagcagattt aaaatctcca aggtcattgt ggtgggggac 240
 ctgtcggtag ggaaaacttg cctcattaat aggttaagggg gtgctggagc tgaactgggc 300
 aggggtgggc caagcctagc cagggtgggt ggttccagat cacagcattt ggtacctct 360
 cagggtctgc aaagactcct ttgataagaa ttacaaggcc ccattggag cggacttcga 420
 gatggaacga tttgaggtgc tgggcattcc ctttcg 456

```

tacatcttat gacacagcga ttccaatctc agaataatcc taaaagaatg tcctccaaat 180
gtcaccaaga aacatgtgca agaattgtta ttctagcacc attcacagcc acaataaaaag 240
ggaaacaact cacatgtcca ttggtagaag aaaggataga ttatactgtg gtatagtacac 300
aaatattata taaaagtga aaggaacctg taagttacaa ttacacacaa catgggtgaa 360
tcttaatatc ttaatgtttg agattatact gtggtatagt cacaatat attn 413

```

```

<210> 1086
<211> 1045
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1045)
<223> n = a,t,c or g

```

```

<400> 1086
agctgcagaa tctccgggac gttccacgcy tacggacgga gccgggctca ccaggtegct 60
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cggcgggggt cggcaggggg cgggttggtg gaatgatgga ggaggaggaa ctggagttcg 180
tggaggagct ggaagcogtg ctgcagctca cggccgaggt gcagctggcc atcgagcagg 240
tgtttccaag ccaggacct ctgacgcgag cagatttcaa tgctgttgag tatatcaata 300
ccctgttccc aaccgagcaa tctctggcga acatagacga agtcgtgaac aaaattaggc 360
tgaaaataag gagactggat gacaatatc gaactgttgt aagaggtcag acgaacgtgg 420
ggcaggatgg acggcaagta agtaactcat tctccatatt tacctatgct cccctgggtt 480
ctcccggcaa ccagatgacc aaaacgtcga tgtgccctct tgcagagcac tttccgattg 540
atccgtttca tacatggcag gacaagacag ggcaggcgcc cacagcagcc acgtgctgtc 600
cctcagtgct ccttggacca ggaccgtgaa ctgtggcacc gtcacccga ggccagatga 660
gaacactggg gcttacttgt ctttctcctt cgtgtcgggc atctcttgtg ccctctttta 720
ttttgtgggc tgtggctaaa tgaggttget gcattogtca gctgagttgt tggggttttg 780
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ttgccagcag gcaggtgact caagattcat taaaaaattt tacaagttgg ccgggcacag 900
cgggcacatn ggtcacgcct gtaatcccag ctactcagga ggctgaggca tgagagtcac 960
ttgaaccag gagccagagg ttgcagttag gcgagattgc accgctgcac tccagcatgg 1020
acgacagggg tgagactgtc tcaaa 1045

```

```

<210> 1087
<211> 430
<212> DNA
<213> Homo sapiens

```

```

<400> 1087
attttccttg ctgtatctgg ttctatcata ggaatatctc aaatttgatt taccatttg 60
cacgttaagc atttgggtca ttttcagttg gtgttttcag aggtcatatg ccattgtatt 120
ctcatgcctg tgcctgaga gtcacagcgt ctctgagaga ggtctgtgtg tgcattcac 180
gtgtgtatac agacatatgt atgtctacag gtgtatgcat gtatgtgtgt gtattacata 240
tgtatgtttg tctatagtgt atatggatgt gggttatgta catgtgtgtg catggatgtg 300
tacatatgtg tgtgtgtgca ggagtttctc ttgggtgcaa agcagccgtg aggggtgtgg 360
gttgaagtt cacaggatgt ggtgtgtccc tgtggctcat gtcttcagca gtcactcatt 420
agtcactgtg 430

```

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<210> 1088
<211> 408
<212> DNA
<213> Homo sapiens

```

```

cccaaattgc atctgatggt ctcaagggtc ttctgtttga agtgagtctt gctgacttgc 600
agaatgatga agttgcattt agaaaattca agctgattac tgaagatggt caggacaaaa 660
actgcctgac taacttctat ggcattggac ttacctgtga caaaatattg tccatgggtg 720
aaaaatgttc aacaatgatt gaagctcatg ttgatgtcaa gactaccgat gggtacttct 780
ttcatctgtt ttgtgttggg ttactaaaaa aacacaacaa tcagatactg aagacctctt 840
atgcttagca ccaacagtct gccaaatcca gaagaagatg atggaaatca tgacctgaga 900
gggtgcagaca aatgacttga aagaagtggg caataaattg attccagaca acattggaaa 960
agatacagaa aaggttttcc aatttatcct ctccatgatg tcttcattag aaaagtaaaa 1020
atgctggaga accctggggt tgaaaggcat ggagcttcgt ggtggaggta gtagttctg 1079

```

```

<210> 1083
<211> 385
<212> DNA
<213> Homo sapiens

```

```

<400> 1083
gttccccagt ggtaagccgc aatctagctg acgtggcccc aacccccacat tccttctctg 60
cctgcaatgt ctgaagaaac cctacagagc aaattggcgg ctgcaaagaa aaagctgcct 120
tggggtgcgg tgcagggggt cagagccatg tcggacctgt tactgttact actggacctg 180
actctgttac tgctgctgat gctgctgggc ttgcccgggt actcagggca gttggctggg 240
gtggcagtga gtgccggctc acccccctac cctacaagtt ccattgtggg ccctatgggt 300
agactgggtg gottctcacc agagctgcag catctccccc aaactctgct ccacgctgt 360
ccactaggat aacctgcac ggttc

```

```

<210> 1084
<211> 357
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1) ... (357)
<223> n = a,t,c or g

```

```

<400> 1084
acaaacaatc caaacagaaa ataacaaaac atatgaagtg atttcaccaa agaggacatg 60
ccgatggcac ataagcacga gaagacatcc agcctctcca gccattgagt cactgccaat 120
taaggagat gcagactcag actgctgtga gctagcacta cacacctatt aacacagata 180
caatagaaaa tagtgaatat acaaatgct ggtgaggata ctgagaagct ggtctcatt 240
catcactggg ggggaggtaa aagggtacaa ccgttctgga aaagagtttg gcagaaaaga 300
acgctgaact taagggttta gatgtagatt ctttggtcac tgagcatatt caagtg 357

```

```

<210> 1085
<211> 413
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1) ... (413)
<223> n = a,t,c or g

```

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<400> 1085
ccatattctc tttaacatat gggccaactg ggatatttta tacaatgctg gtgggagtgt 60
aaacggctaa tatcatttta ggaaaacaat ttgacaatct cctgcaaagt agaccattta 120

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gggaatgtgg	ttgatcaact	tgatatgttg	gccaaatgtg	ccccatgtaa	taaaatgaaa	180
agaagagaca	agatgatgtc	atcttcccat	attgtgaaac	caaaaacaaa	cgccttttgt	240
gagaccaagc	taacaaacct	ctgaagggtg	gaagagtatt	taactgtttg	aagaatttaa	300
cagtaagata	cagaagaagt	accttcgagc	tgagacctgc	aggtgtataa	atatctaaaa	360
tacatattga	ataggcctga	tcacatgaa	ctccttcaga	cccaggaagg	atggctatga	420
cttggtattg	cttctctctt	tggcccttga	ctgtgttcat	ggggcatata	ggtgggcaca	480
gtttgttttc	ttgtgaacct	attaccttga	ggatgtgcca	agatttgcct	tataatacta	540
ccttcattgc	taatcttctg	aatcattatg	accaacagac	agcagctttg	gcaatggagc	600
cattccaccc	tatggatga	ctggattgtt	ctcgggattt	cgggcctttt	ctttgtgcac	660
tctacgctcc	tatttgtatg	gaatatggac	gtgtcacact	tccctgtcgt	aggctgtgtc	720
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atatggaatg	cagtagggtc	ccagattgtg	atgagccata	tccctgactt	gtggatctga	840
atttggctgg	agaaccaact	gaaggagccc	cagtggcagt	gcagagagac	tatgggtttt	900
ggtgtcccg	agagttaaaa	attgatcctg	atctgggtta	ttcttttctg	catgtgcgtg	960
attgttcacc	tccttgtcca	aatatgtact	tcagaagaga	agaactgtca	tttgctcgct	1020
atttcatagg	attgatttca	atcatttgcc	tctcggccac	attgtttact	ttgttaacct	1080
ttttgattga	tgtcacaa	ttccggtatc	ctgaaaggcc	cattaaatgt	tatgcagtct	1140
ggcacatgat	ggtatcctta	atcttcttca	attggatttt	tgcctgaaga	tcgagtagcc	1200
tgcaatgcaa	tccatccctg	cacaatataa	ggcttcacaa	gtgacacaa	gatctcataa	1260
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gtgggtaatt	cttaccatca	catgggtttt	agcagctgtg	ccaaagtggg	gtagtgaagc	1380
tattgagaag	aaagcattgc	tgtttcacgc	cagtgcattg	ggcatccccg	gaactctaac	1440
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<210> 1081
 <211> 420
 <212> DNA
 <213> Homo sapiens

<400> 1081						
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agctctgtaa	tttttcaatt	tacaccaaac	aaatgaactt	gagcattgcc	atcccagcta	360
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<210> 1082
 <211> 1079
 <212> DNA
 <213> Homo sapiens

<400> 1082						
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agaccctgtc	tgtacaaaaa	aagaaaaaat	aaataacagc	tgggtgcagg	ggtccacact	240
tgtaatccca	gcactttggg	aggcagaggc	gggcagatca	cctgacatca	ggagttcaag	300
agcagcttgg	ccaacatcct	gaaatcccg	ctctacccaa	aatataaaat	ttagcctttt	360
ggtactccaa	gcagcaccat	ggcggttggt	aagaacaaat	gccttatgaa	aggtggcaaa	420
aagggagtta	agaagaaagt	agttggtcca	ttctctaaga	aagatcagta	tgatgtgaaa	480
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cttgctcctc tgcaacggac tgaagacttt gggcaaaactt taactagtta actccatgat    60
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tcgggctggg tggagcgggg agccctgtgg agagcagaga gctgccactc tgtgccagcc    240
ctgtggagag cagggctactg ccagcagcgg accctcagaa gaaagtgcac gacatcagac    300
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gct

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<210> 1078
<211> 1035
<212> DNA
<213> Homo sapiens

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<400> 1078
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agctggggcc tgaggtgccc gccctccgcc ctggctggct ggccctgctg ctgtgggtct    180
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tcagaaccag ctacaatttt ggaaggactt tcctoggtct tgataaatgc aatgcctgca    300
tcgggacatc tatttgcaag aagttcttta aagaagaaat aagatctgac aactggctgg    360
cttccacact tggactgcct cccgattcct tgctttctta tcctgcaaat tactcagatg    420
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cagccgacct tgcctaccag ctctgggtg tcctggagtc tttgaggagc aagatattha    960
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<210> 1079
<211> 376
<212> DNA
<213> Homo sapiens

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<400> 1079
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aacttgatct ggaagctgtg cgtaaccgaa aggaggcttg taattcttga taactatgac    180
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<210> 1080
<211> 1788
<212> DNA
<213> Homo sapiens

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<210> 1076
 <211> 870
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1) ... (870)
 <223> n = a,t,c or g

<400> 1076		
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gcgaatgtaa	tacggaggcc tctgaggaag gagtacggag gccgagaagg agccggcatt 180	
tgatgagcga	accgggaaag ggagacgatt gcctcgagct ggagagttcc atggctgaga 240	
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ttctgagcaa	agaagtaagt tacatcgtgt ccagccgcag agaagtaaag gcagagagca 480	
gtgggaaaa	ccatagaggg tgcctagcc ctagccccag tgaggtcaga gtggaacat 540	
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<210> 1077
 <211> 363
 <212> DNA
 <213> Homo sapiens

<400> 1077

<223> n = a,t,c or g

<400> 1072
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 ggatctttagg gaagcagcat ctcttataaa cagaaaaatc taagctgttg tctgatataa 180
 gtgctcgtct atggtttaca tacagaagga aattttcacc aattggtgga acggggccctt 240
 catcagatgc tggttgggga tgtatgctac gctgtggaca gatgatgctg gctcaagccc 300
 ttatctgtag acacttggga agggactgga gctgggagaa acaaaaagaa caacccaaag 360
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 aaatggcaca aatgggtgta ggagaaggga aatcaattgg agaattgggt ttgggaccaa 480
 atacagtgg cacagggtgt ttaaaaaaac ctggccttta ttgacgaat ggggaattccc 540
 ttgggctggg ttatgtttca atgggataac ccagtggtt ccattgnaag atttccaaaa 600
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<210> 1073

<211> 412

<212> DNA

<213> Homo sapiens

<400> 1073
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 aggaagccaa gggagcagtg caaaggattt ctgagtatag ggagacgtag acatagagggt 180
 gacctgtccc atctgcctgc aactcctgac agaacctctg agoctaaatt gtggcctcag 240
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 aagcagtagt cctgtgtgtc ataccacatt ccagcctgct aacctgcgaa ctagtcgata 360
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<210> 1074

<211> 435

<212> DNA

<213> Homo sapiens

<400> 1074
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 aattgtgaag ttccagaacg tattagaagg tccggaccat ggaaagagat ttottttggg 180
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 aacctttgga cattaaccgg gtgtcttctc tccacgaggc atgcctttga ggtcccgctg 360
 cctgtgccaa gccttattgg aaaatggtgc cacgtcatgg agggacagtt acggggccccc 420
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<210> 1075

<211> 1590

<212> DNA

<213> Homo sapiens

<400> 1075
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<210> 1070
 <211> 1776
 <212> DNA
 <213> Homo sapiens

<400> 1070
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 acagccacag gtcttcccag gacaagaccc tgactaccc cagcatggaa actaccagga 480
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<210> 1071
 <211> 358
 <212> DNA
 <213> Homo sapiens

<400> 1071
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 aactgaaagt ctttctgtga agatctggaa catgacaagg atgctcagtg tggccccg 358

<210> 1072
 <211> 666
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1) ... (666)

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<210> 1069

<211> 1677

<212> DNA

<213> Homo sapiens

1

<400> 1069

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 <212> DNA
 <213> Homo sapiens

<400> 1062

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<210> 1060
<211> 381
<212> DNA
<213> Homo sapiens

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<223> n = a,t,c or g

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<210> 1061
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<212> DNA
<213> Homo sapiens

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<400> 1061
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<211> 1575

<212> DNA

<213> Homo sapiens

<400> 1058

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<211> 968

<212> DNA

<213> Homo sapiens

<400> 1059

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<211> 846

<212> DNA

<213> Homo sapiens

<400> 1056

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<211> 1231

<212> DNA

<213> Homo sapiens

<400> 1057

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 <211> 694
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 <213> Homo sapiens

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 <213> Homo sapiens

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<211> 2349

<212> DNA

<213> Homo sapiens

<400> 1053

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<211> 2966

<212> DNA

<213> Homo sapiens

<220>

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<211> 2460

<212> DNA

<213> Homo sapiens

<400> 1049

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<211> 1886

<212> DNA

<213> Homo sapiens

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<211> 2812

<212> DNA

<213> Homo sapiens

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<210> 1029
<211> 920
<212> DNA
<213> Homo sapiens

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<210> 1030
<211> 1662
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)...(1662)
<223> n = a,t,c or g

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<210> 1027

<211> 478

<212> DNA

<213> Homo sapiens

<400> 1027

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<210> 1028

<211> 2162

<212> DNA

<213> Homo sapiens

<400> 1028

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1730

<210> 1025
<211> 2249
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1) ... (2249)
<223> n = a,t,c or g

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cactgagtat ggacatcgat annagctc 2249

<210> 1026
<211> 1166
<212> DNA
<213> Homo sapiens

<400> 1026

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<210> 1023
 <211> 460
 <212> DNA
 <213> Homo sapiens

<400> 1023						
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<210> 1024
 <211> 1730
 <212> DNA
 <213> Homo sapiens

<400> 1024						
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 <211> 930
 <212> DNA
 <213> Homo sapiens

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<210> 1022
 <211> 1612
 <212> DNA
 <213> Homo sapiens

<400> 1022						
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<210> 1020

<211> 1253

<212> DNA

<213> Homo sapiens

<400> 1020

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<210> 1018

<211> 1094

<212> DNA

<213> Homo sapiens

<400> 1018

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<210> 1019

<211> 2617

<212> DNA

<213> Homo sapiens

<400> 1019

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<210> 1016
 <211> 507
 <212> DNA
 <213> Homo sapiens

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<210> 1017
 <211> 1605
 <212> DNA
 <213> Homo sapiens

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<210> 1013
 <211> 582
 <212> DNA
 <213> Homo sapiens

<400> 1013						
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<210> 1014
 <211> 362
 <212> DNA
 <213> Homo sapiens

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<210> 1015
 <211> 2323
 <212> DNA
 <213> Homo sapiens

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<400> 1011
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<210> 1012
<211> 2857
<212> DNA
<213> Homo sapiens

<220>
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<222> (1)...(2857)
<223> n = a,t,c or g

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<212> DNA

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<213> Homo sapiens

<400> 981

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<211> 1915

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

<210> 968
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<211> 770

<212> DNA

<213> Homo sapiens

<400> 967

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<211> 5032

<212> DNA

<213> Homo sapiens

<400> 966

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<212> DNA

<213> Homo sapiens

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 <213> Homo sapiens

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<211> 1999

<212> DNA

<213> Homo sapiens

<400> 956

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<212> DNA
 <213> Homo sapiens
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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
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<210> 954
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aaaaaaaa						1389

<210> 946

<211> 630

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(630)

<223> n = a,t,c or g

<400> 946

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<210> 947

<211> 549

<212> DNA

<213> Homo sapiens

<400> 947

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<222> (1) ... (1131)
 <223> n = a, t, c or g

<400> 943

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<210> 944
 <211> 1211
 <212> DNA
 <213> Homo sapiens

<400> 944

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 <211> 1389
 <212> DNA
 <213> Homo sapiens

<210> 941
 <211> 435
 <212> DNA
 <213> Homo sapiens

<400> 941
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<210> 942
 <211> 1708
 <212> DNA
 <213> Homo sapiens

<400> 942
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 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

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<210> 940

<211> 2009

<212> DNA

<213> Homo sapiens

<400> 940

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ataaagattt	ttgttttcta	aaaaaaaaa				2009


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<210> 938
<211> 1464
<212> DNA
<213> Homo sapiens

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<210> 939
<211> 1565
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)...(1565)
<223> n = a,t,c or g

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<210> 936

<211> 1986

<212> DNA

<213> Homo sapiens

<400> 936

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<211> 392

<212> DNA

<213> Homo sapiens

<400> 937

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 <213> Homo sapiens

<400> 935

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<212> DNA
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 <212> DNA
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<210> 929
 <211> 1963
 <212> DNA
 <213> Homo sapiens

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<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(743)

<223> n = a,t,c or g

<400> 925

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<210> 926

<211> 1271

<212> DNA

<213> Homo sapiens

<400> 926

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<210> 927

<211> 463

<212> DNA

<213> Homo sapiens

<400> 927

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<210> 924

<211> 1199

<212> DNA

<213> Homo sapiens

<400> 924

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<210> 925

<211> 743

<212> DNA

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<210> 923
 <211> 3836
 <212> DNA
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 <212> DNA
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<210> 922
 <211> 1751
 <212> DNA
 <213> Homo sapiens

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<213> Homo sapiens

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<211> 1870

<212> DNA

<213> Homo sapiens

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<211> 932

<212> DNA

<213> Homo sapiens

<400> 904

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<212> DNA

<213> Homo sapiens

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<211> 798

<212> DNA

<213> Homo sapiens

<400> 902

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<211> 836

<212> DNA

<213> Homo sapiens

<400> 903

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<400> 901

<400> 897

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<211> 787

<212> DNA

<213> Homo sapiens

<400> 898

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<211> 981

<212> DNA

<213> Homo sapiens

<213> Homo sapiens

<400> 894

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<211> 355

<212> DNA

<213> Homo sapiens

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<211> 804

<212> DNA

<213> Homo sapiens

<400> 896

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<210> 897

<211> 1725

<212> DNA

<213> Homo sapiens

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<211> 669

<212> DNA

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<400> 893

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<213> Homo sapiens

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<211> 1376

<212> DNA

<213> Homo sapiens

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<210> 892

<211> 2900

<212> DNA

<213> Homo sapiens

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<211> 1085
<212> DNA

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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
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<211> 654

<212> DNA

<213> Homo sapiens

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<211> 569

<212> DNA

<213> Homo sapiens

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<223> n = a,t,c or g

<400> 886

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<211> 414

<212> DNA

<213> Homo sapiens

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 <213> Homo sapiens

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<211> 499

<212> DNA

<213> Homo sapiens

<400> 882

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<211> 933

<212> DNA

<213> Homo sapiens

<400> 883

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<210> 881
 <211> 1966
 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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 <213> Homo sapiens

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 <213> Homo sapiens

<400> 870

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 <212> DNA
 <213> Homo sapiens

<400> 871

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<210> 867
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 867
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<210> 864
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 <212> DNA
 <213> Homo sapiens

<400> 864

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 <211> 742
 <212> DNA
 <213> Homo sapiens

<400> 865

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<210> 863

<211> 1355

<212> DNA

<213> Homo sapiens

<400> 863

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<213> Homo sapiens

<400> 860

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<210> 861

<211> 1340

<212> DNA

<213> Homo sapiens

<400> 861

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<210> 862

<211> 2091

<212> DNA

<213> Homo sapiens

<400> 862

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<210> 858
 <211> 465
 <212> DNA
 <213> Homo sapiens

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<210> 859
 <211> 1467
 <212> DNA
 <213> Homo sapiens

<400> 859						
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<210> 860
 <211> 626
 <212> DNA

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<211> 2197

<212> DNA

<213> Homo sapiens

<400> 839

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<210> 838
<211> 6329

<211> 148
 <212> PRT
 <213> Homo sapiens

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 Val Thr Val Arg Phe Val Asn Lys Ala Asp Phe Pro Lys Val Arg Ala
 35 40 45
 Lys Glu Gln Thr Phe Met Phe Pro Glu Asn Gln Pro Val Ser Ser Leu
 50 55 60
 Val Thr Thr Ile Thr Gly Ser Ser Leu Arg Gly Glu Pro Met Ser Tyr
 65 70 75 80
 Tyr Ile Ala Ser Gly Asn Leu Gly Asn Thr Phe Gln Ile Asp Gln Leu
 85 90 95
 Thr Gly Gln Val Ser Ile Ser Gln Pro Leu Asp Phe Glu Lys Ile Gln
 100 105 110
 Lys Tyr Val Val Trp Ile Glu Ala Arg Asp Gly Gly Val Pro Pro Phe
 115 120 125
 Ser Ser Tyr Glu Lys Leu Asp Ile Thr Val Leu Asp Val Asn Asp Asn
 130 135 140
 Ala Pro Ile Phe
 145 148

<210> 1651
 <211> 90
 <212> PRT
 <213> Homo sapiens

<400> 1651
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 Lys Asp Leu Gln Leu Pro Ser Gly Phe Asn Cys Asn Phe Asp Phe Leu
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 Glu Glu Pro Cys Gly Trp Met Tyr Asp His Ala Lys Trp Leu Arg Thr
 35 40 45
 Thr Trp Ala Ser Ser Ser Ser Pro Asn Asp Arg Thr Phe Pro Gly Lys
 50 55 60
 Pro Ala Val Ser Glu Asp Met Lys Glu Leu Arg Pro Ala Cys Ser Thr
 65 70 75 80
 Tyr Phe Asn Pro Arg Phe Pro Tyr Lys Leu
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<210> 1652
 <211> 137
 <212> PRT
 <213> Homo sapiens

<400> 1652
 Gly Pro Gln Met Leu Cys Lys Lys Ile Tyr Phe Ile Trp Val Thr Arg
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 Glu Asn Asp His Gln Asp Leu Val Ser Val His Ile Tyr Val Thr Gln
 35 40 45

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Leu Ala Glu Lys Phe Asp Leu Arg Thr Thr Met Leu Tyr Ile Cys Glu
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Arg His Phe Gln Lys Val Leu Asn Arg Ser Leu Phe Thr Gly Leu Arg
  65          70          75          80
Ser Ile Thr His Phe Gly Arg Pro Pro Phe Glu Pro Phe Phe Asn Ser
          85          90          95
Leu Gln Glu Val His Pro Gln Val Arg Lys Ile Gly Val Phe Ser Cys
          100          105          110
Gly Pro Pro Gly Met Thr Lys Asn Val Glu Lys Ala Cys Gln Leu Val
          115          120          125
Asn Arg Gln Asp Arg Ala His Phe Met
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<210> 1653
<211> 54
<212> PRT
<213> Homo sapiens

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<400> 1653
Lys Leu Asn Arg Trp Leu Cys Phe Phe Tyr Ser Trp Ser Phe Gly Ile
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Leu Leu Tyr Glu Met Val Thr Leu Gly Ala Pro Pro Tyr Pro Glu Val
          20      25      30
Pro Pro Thr Ser Ile Leu Glu His Leu Gln Arg Arg Lys Ile Met Lys
          35      40      45
Arg Pro Ser Ser Cys Ser
  50          54

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<210> 1654
<211> 58
<212> PRT
<213> Homo sapiens

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<400> 1654
Pro Gly Val Pro Ser Gln Ala Leu Arg Lys Ala Glu Ser Leu Lys Lys
  1      .      5      10      15
Cys Leu Ser Val Met Glu Ala Lys Val Lys Ala Gln Thr Ala Pro Asn
          20      25      30
Lys Asp Val Gln Arg Glu Ile Ala Asp Leu Gly Glu Val Gly Ala Ala
          35      40      45
Ser Leu Pro Pro Ser Ser Gly Pro Gly Ala
  50          55          58

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<210> 1655
<211> 101
<212> PRT
<213> Homo sapiens

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<400> 1655
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  1      .      5      10      15
Ser Lys Asn Val Phe Tyr Asp Asn Gly Lys Val Val Ile Thr Asp Phe
          20      25      30
Gly Leu Phe Ser Ile Ser Gly Val Leu Gln Ala Gly Arg Arg Glu Asp
          35      40      45

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Lys Leu Arg Ile Gln Asn Gly Trp Leu Cys His Leu Ala Pro Glu Ile
 50 55 60
 Ile Arg Gln Leu Ser Pro Asp Thr Glu Glu Asp Lys Leu Pro Phe Ser
 65 70 75 80
 Lys His Ser Asp Val Phe Ala Leu Gly Thr Ile Trp Tyr Glu Leu His
 85 90 95
 Ala Arg Glu Trp Pro
 100 101

<210> 1656
 <211> 109
 <212> PRT
 <213> Homo sapiens

<400> 1656
 Val Arg Trp Asn Ser Cys Val Asn Cys Ser Cys Ala Phe Gly Asn Gly
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 Ala Ser Leu Ser Thr Ser Leu Gly Glu Ser Ser Gly Cys Leu Trp Glu
 20 25 30
 Ile Gly Lys Trp Leu Ser Cys Ser Leu Leu Ser Phe Pro Ser Pro Leu
 35 40 45
 Ala Val Leu Ile Ile Thr Phe Cys Ile Val Thr Val Leu Gly Arg Glu
 50 55 60
 Ala Leu Thr Lys Gly Ala Leu Trp Ala Val Phe Leu Leu Ala Gly Ser
 65 70 75 80
 Ala Leu Leu Cys Ala Glu Val Thr Gly Val Ile Trp Arg Gln Pro Glu
 85 90 95
 Ser Lys Thr Lys Leu Ser Phe Lys Val Ser Ser Ser Ala
 100 105 109

<210> 1657
 <211> 136
 <212> PRT
 <213> Homo sapiens

<400> 1657
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 Asp Leu Ser Thr Thr Glu Gly Ser His Ala Phe Leu Pro Cys Lys Ala
 35 40 45
 Arg Gly Ser Pro Glu Pro Asn Ile Thr Trp Asp Lys Asp Gly Gln Pro
 50 55 60
 Val Ser Gly Ala Glu Gly Lys Phe Thr Ile Gln Pro Ser Gly Glu Leu
 65 70 75 80
 Leu Val Lys Asn Leu Glu Gly Gln Asp Ala Gly Thr Tyr Thr Cys Thr
 85 90 95
 Ala Glu Asn Ala Val Gly Arg Ala Arg Arg Val His Leu Thr Ile
 100 105 110
 Leu Val Leu Pro Val Phe Thr Thr Leu Pro Gly Asp Arg Ser Leu Arg
 115 120 125
 Leu Gly Asp Arg Leu Trp Leu Arg
 130 135 136

<210> 1658

<211> 135
 <212> PRT
 <213> Homo sapiens

<400> 1658
 Pro Thr Arg Pro Pro Arg Val Arg Phe Asp Asn Glu Phe Asp Ala Glu
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 Ser Gln Arg Lys Arg Thr Thr Ser Val Ser Lys Met Glu Arg Met Asp
 20 25 30
 Ser Ser Leu Pro Glu Glu Glu Glu Asp Glu Asp Lys Glu Ala Ile Asn
 35 40 45
 Gly Ser Gly Asn Ala Glu Asn Arg Glu Arg His Ser Glu Ser Ser Asp
 50 55 60
 Trp Met Lys Thr Val Pro Ser Tyr Asn Gln Thr Asn Ser Ser Met Asp
 65 70 75 80
 Phe Arg Asn Tyr Met Met Arg Asp Glu Thr Leu Glu Pro Leu Pro Lys
 85 90 95
 Asn Trp Glu Met Ala Tyr Thr Asp Thr Gly Met Ile Tyr Phe Ile Asp
 100 105 110
 His Asn Thr Lys Thr Thr Thr Trp Leu Asp Pro Arg Leu Cys Lys Lys
 115 120 125
 Ala Lys Ala Pro Glu Asp Cys
 130 135

<210> 1659
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 1659
 Gln Asp Phe Leu Thr Leu Thr Leu Thr Glu Pro Thr Gly Leu Leu Tyr
 1 5 10 15
 Val Gly Ala Arg Glu Ala Leu Phe Ala Phe Ser Met Glu Ala Leu Glu
 20 25 30
 Leu Gln Gly Ala Val Arg Gly Gly Ala Val Gly Gly Ser Arg Ala Cys
 35 40 45
 Gln Arg Ala Arg Pro Arg Gly Ala Val Leu Gly
 50 55 59

<210> 1660
 <211> 139
 <212> PRT
 <213> Homo sapiens

<400> 1660
 Gln Asp Met Met Glu Arg Ala Ile Ile Asp Thr Phe Val Gly His Asp
 1 5 10 15
 Val Val Glu Pro Gly Ser Tyr Val Gln Met Phe Pro Tyr Pro Cys Tyr
 20 25 30
 Thr Arg Asp Asp Phe Leu Phe Val Ile Glu His Met Met Pro Leu Cys
 35 40 45
 Met Val Ile Ser Trp Val Tyr Ser Val Ala Met Thr Ile Gln His Ile
 50 55 60
 Val Ala Glu Lys Glu His Arg Leu Lys Glu Val Met Lys Thr Met Gly
 65 70 75 80
 Leu Asn Asn Ala Val His Trp Val Ala Trp Phe Ile Thr Gly Phe Val
 85 90 95

Gln Leu Ser Ile Ser Val Thr Ala Leu Thr Ala Ile Leu Lys Tyr Gly
 100 105 110
 Gln Val Leu Met His Ser His Val Val Ile Ile Trp Leu Phe Leu Ala
 115 120 125
 Val Tyr Ala Val Ala Thr Ile Met Phe Cys Phe
 130 135 139

<210> 1661
 <211> 154
 <212> PRT
 <213> Homo sapiens

<400> 1661
 Met Lys Pro Gln Met Pro Gly Leu Gly Ala Pro Asn Gly Tyr Gly Pro
 1 5 10 15
 Gly Arg Gly Arg Ala Gly Val Pro Gly Gly Pro Glu Arg Arg Pro Trp
 20 25 30
 Val Pro His Leu Leu Pro Phe Ser Ser Pro Gly Tyr Leu Gly Val Met
 35 40 45
 Lys Ala Gln Lys Pro Gly Ala Gly Glu Gly Met Lys Pro Gln Lys Pro
 50 55 60
 Gly Leu Arg Gly Thr Leu Lys Pro Gln Lys Ser Gly His Gly His Glu
 65 70 75 80
 Asn Gly Pro Trp Pro Gly Pro Cys Asn Ala Arg Val Ala Pro Met Leu
 85 90 95
 Leu Pro Arg Leu Pro Thr Pro Gly Val Pro Ser Asp Lys Glu Gly Gly
 100 105 110
 Trp Gly Leu Lys Ser Gln Pro Pro Ser Ala Val Gln Asn Gly Lys Leu
 115 120 125
 Pro Gly His Gln Pro Pro Asn Gly Tyr Gly Pro Gly Ala Glu Pro Gly
 130 135 140
 Phe Asn Gly Gly Leu Glu Pro Gln Lys Ile
 145 150 154

<210> 1662
 <211> 134
 <212> PRT
 <213> Homo sapiens

<400> 1662
 Trp Leu Ala Gln Glu Trp Ser Pro Cys Thr Val Thr Cys Gly Gln Gly
 1 5 10 15
 Leu Arg Tyr Arg Val Val Leu Cys Ile Asp His Arg Gly Met His Thr
 20 25 30
 Gly Gly Cys Ser Pro Lys Thr Lys Pro His Ile Lys Glu Glu Cys Ile
 35 40 45
 Val Pro Thr Pro Cys Tyr Lys Pro Lys Glu Lys Leu Pro Val Glu Ala
 50 55 60
 Lys Leu Pro Trp Phe Lys Gln Ala Gln Glu Leu Glu Glu Gly Ala Ala
 65 70 75 80
 Val Ser Glu Glu Pro Ser Phe Ile Pro Glu Ala Trp Ser Ala Cys Thr
 85 90 95
 Val Thr Cys Gly Val Gly Thr Gln Val Arg Ile Val Arg Cys Gln Val
 100 105 110
 Leu Leu Ser Phe Ser Gln Ser Val Ala Asp Leu Pro Ile Asp Glu Cys
 115 120 125
 Glu Gly Pro Lys Pro Ala
 130 134

<210> 1663
 <211> 143
 <212> PRT
 <213> Homo sapiens

<400> 1663
 Val Val Ala Asp Asn Cys Arg Gln Gly Tyr Leu Asp Ala Leu Arg Phe
 1 5 10 15
 Leu Glu Arg Arg Gly Leu Thr Lys Glu Pro Val Leu Trp Thr Leu Val
 20 25 30
 Ser Lys Glu Pro Pro Ala Pro Ala Asp Gly Asn Trp Asp Ala Gly Cys
 35 40 45
 Asp Gln Arg Arg Lys Gly Gly Leu Ser Leu Asn Trp Lys Val Pro His
 50 55 60
 Val Gln Val Lys Asp Val Pro Asn Phe Glu Gln Leu Ser Pro Glu Leu
 65 70 75 80
 Glu Ala Ala Leu Lys Lys Ala Cys Thr Arg Asp Pro Ser Arg Trp Ala
 85 90 95
 Arg Phe Trp His Ser Gly Pro Gly Gln Val Leu Thr Tyr Leu Leu Leu
 100 105 110
 Pro Cys Thr Leu Pro Phe Glu Tyr Ile Tyr Phe Arg Ser Arg Arg Leu
 115 120 125
 Val Val Trp Leu Pro Asp Val Pro Ala Asp Leu Trp Trp Met Gln
 130 135 140 143

<210> 1664
 <211> 130
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(130)
 <223> Xaa = any amino acid or nothing

<400> 1664
 Leu Asp Xaa Ser His Asn Ala Leu Gln Arg Leu Arg Pro Gly Trp Leu
 1 5 10 15
 Ala Pro Leu Phe Gln Leu Arg Ala Leu His Leu Asp His Asn Glu Leu
 20 25 30
 Asp Ala Leu Gly Arg Gly Val Phe Val Asn Ala Ser Gly Leu Arg Leu
 35 40 45
 Leu Asp Leu Ser Ser Asn Thr Leu Arg Ala Leu Gly Arg His Asp Leu
 50 55 60
 Asp Gly Leu Gly Ala Leu Glu Lys Leu Leu Leu Phe Asn Asn Arg Leu
 65 70 75 80
 Val His Leu Asp Glu His Ala Phe His Gly Leu Arg Ala Leu Ser His
 85 90 95
 Leu Tyr Leu Gly Cys Asn Glu Leu Ala Ser Phe Ser Phe Asp His Leu
 100 105 110
 His Gly Leu Ser Ala Thr His Leu Leu Thr Leu Asp Leu Ser Ser Asn
 115 120 125
 Arg Met
 130

<210> 1665

<211> 175
 <212> PRT
 <213> Homo sapiens

<400> 1665
 Ile Thr Val Ser Thr His Ala Ser Gly Ser Pro Phe Gly Leu Glu Pro
 1 5 10 15
 Gln Ser Gly Trp Leu Trp Val Arg Ala Ala Leu Asp Arg Glu Ala Gln
 20 25 30
 Glu Leu Tyr Ile Leu Lys Val Met Ala Val Ser Gly Ser Lys Ala Glu
 35 40 45
 Leu Gly Gln Gln Thr Gly Thr Ala Thr Val Arg Val Ser Ile Leu Asn
 50 55 60
 Gln Asn Glu His Ser Pro Arg Leu Ser Glu Asp Pro Thr Phe Leu Ala
 65 70 75 80
 Val Ala Glu Asn Gln Pro Pro Gly Thr Ser Val Gly Arg Val Phe Ala
 85 90 95
 Thr Asp Arg Asp Ser Gly Pro Asn Gly Arg Leu Thr Tyr Ser Leu Gln
 100 105 110
 Gln Leu Ser Glu Asp Ser Lys Ala Phe Arg Ile His Pro Gln Thr Gly
 115 120 125
 Glu Val Thr Thr Leu Gln Thr Leu Asp Arg Glu Gln Gln Ser Ser Tyr
 130 135 140
 Gln Leu Leu Val Gln Val Gln Asp Gly Gly Ser Pro Pro Arg Ser Thr
 145 150 155 160
 Thr Gly Thr Val His Val Ala Val Leu Asp Leu Asn Asp Asn Thr
 165 170 175

<210> 1666
 <211> 133
 <212> PRT
 <213> Homo sapiens

<400> 1666
 Glu Leu Val Val Glu Leu Val Ser Ala Gly Lys Ser Gly Pro Glu Arg
 1 5 10 15
 Asn Thr Tyr Glu Val Gln Val Val Thr Gly Asn Val Pro Lys Ala Gly
 20 25 30
 Thr Asp Ala Asn Val Tyr Leu Thr Ile Tyr Gly Glu Glu Tyr Gly Asp
 35 40 45
 Thr Gly Glu Arg Pro Leu Lys Lys Ser Asp Lys Ser Asn Lys Phe Glu
 50 55 60
 Gln Gly Gln Thr Asp Thr Phe Thr Ile Tyr Ala Ile Asp Leu Gly Ala
 65 70 75 80
 Leu Thr Lys Ile Arg Ile Arg His Asp Asn Thr Gly Asn Arg Ala Gly
 85 90 95
 Trp Phe Leu Asp Arg Ile Asp Ile Thr Asp Met Asn Asn Glu Ile Thr
 100 105 110
 Tyr Tyr Phe Pro Cys Gln Arg Trp Leu Ala Val Glu Glu Asp Asp Gly
 115 120 125
 Gln Leu Ser Arg Glu
 130 133

<210> 1667
 <211> 146
 <212> PRT
 <213> Homo sapiens

<400> 1667

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Val Leu Asn Cys Gln Gly Arg Pro Thr Arg Pro Val Arg Ile Asn Gly
 1           5           10           15
Asp Gly Gln Glu Val Leu Tyr Leu Ala Glu Ser Asp Asn Val Arg Leu
           20           25           30
Gly Cys Pro Tyr Val Leu Asp Pro Asp Asp Tyr Gly Pro Asn Gly Leu
           35           40           45
Asp Ile Glu Trp Met Gln Val Asn Ser Asn Pro Ala His His Arg Glu
           50           55           60
Asn Val Phe Leu Ser Tyr Gln Asp Lys Arg Ile Asn His Gly Ser Leu
           65           70           75           80
Pro His Leu Gln His Arg Val Arg Phe Ala Ala Ser Asp Pro Ser Gln
           85           90           95
Tyr Asp Ala Ser Ile Asn Leu Met Asn Leu Gln Val Ser Asp Thr Ala
           100          105          110
Thr Tyr Glu Cys Arg Val Lys Lys Thr Thr Met Ala Thr Arg Lys Val
           115          120          125
Ile Val Thr Val Gln Ala Arg Pro Ala Val Pro Met Cys Trp Thr Glu
           130          135          140
Gly Gln
145 146

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<210> 1668

<211> 98

<212> PRT

<213> Homo sapiens

<400> 1668

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Leu Pro Glu Lys Glu Phe Pro Ile Ile Arg Lys Ser Ser Ser Leu Lys
 1           5           10           15
Val Thr Lys Cys Leu Phe Thr Glu Gln Pro Lys Pro Ile Ile Ile Leu
           20           25           30
Arg Phe Ala Glu Asn Tyr Asp Ala Arg Leu Leu Arg Ile Asp Ile Ala
           35           40           45
Asn Thr Leu Arg Glu Gln Val Gln Glu Leu Phe Asn Lys Thr Tyr Gly
           50           55           60
Lys Gln Arg Arg Thr Pro Gly Glu Gly His Val Ala Ala Val Asp Arg
           65           70           75           80
Glu Val Ala Gly Phe Pro Val Pro Ala Glu Gly Ile Ser Gly Glu Thr
           85           90           95
Ile His
98

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<210> 1669

<211> 110

<212> PRT

<213> Homo sapiens

<400> 1669

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Gly Phe Phe Ala Tyr Thr Tyr Gly Arg Leu Val Val Val Glu Asp Leu
 1           5           10           15
His Ser Gly Ala Gln Gln His Trp Ser Gly His Ser Ala Glu Ile Ser
           20           25           30
Thr Leu Ala Leu Ser His Ser Ala Gln Val Leu Ala Ser Ala Ser Gly
           35           40           45
Arg Ser Ser Thr Thr Ala His Cys Gln Ile Arg Val Trp Asp Val Ser
           50           55           60

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Gly Gly Leu Cys Gln His Leu Ile Phe Pro His Ser Thr Thr Val Leu
 65              70              75              80
Ala Leu Ala Phe Ser Pro Asp Asp Arg Leu Leu Val Thr Leu Gly Asp
              85              90              95
His Asp Gly Arg Thr Leu Ala Leu Trp Gly Thr Gly His Leu
              100              105              110

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<210> 1670
<211> 124
<212> PRT
<213> Homo sapiens

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<400> 1670
Ile Asp Glu Ser Thr Gly Leu Ile Ile Thr Val Asn Tyr Leu Asp Tyr
 1              5              10              15
Glu Thr Lys Thr Ser Tyr Met Met Asn Val Ser Ala Thr Asp Gln Ala
              20              25              30
Pro Pro Phe Asn Gln Gly Phe Cys Ser Val Tyr Ile Thr Leu Leu Asn
              35              40              45
Glu Leu Asp Glu Ala Val Gln Phe Ser Asn Ala Ser Tyr Glu Ala Ala
              50              55              60
Ile Leu Glu Asn Leu Ala Leu Gly Thr Glu Ile Val Arg Val Gln Ala
              65              70              75              80
Tyr Ser Ile Asp Asn Leu Asn Gln Ile Thr Tyr Arg Phe Asp Ala Tyr
              85              90              95
Thr Ser Thr Gln Ala Lys Ala Leu Phe Lys Ile Asp Ala Ile Thr Val
              100              105              110
Arg Gly Trp Gly Gln Gly Ala Pro Phe Phe Pro Ile
              115              120              124

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<210> 1671
<211> 126
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(126)
<223> Xaa = any amino acid or nothing

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<400> 1671
Arg Ile Pro Arg Gly Lys Ala Cys Xaa Thr Val Leu Gly Arg Ser Thr
 1              5              10              15
Gly Glu Leu Glu Gly Phe Ala Ser Ser Arg Leu Pro Pro Gln Pro Cys
              20              25              30
Gly Trp Gly Gln Ser Ser Asp Leu Leu Ser Arg Ile Asp Leu Asp Glu
              35              40              45
Leu Met Lys Lys Asp Glu Pro Pro Leu Asp Phe Pro Asp Thr Leu Glu
              50              55              60
Gly Phe Glu Tyr Ala Phe Asn Glu Lys Gly Gln Leu Arg His Ile Lys
              65              70              75              80
Thr Gly Glu Pro Phe Val Phe Asn Tyr Arg Glu His Leu His Arg Trp
              85              90              95
Asn Gln Lys Arg Tyr Glu Ala Leu Gly Glu Ile Ile Thr Lys Tyr Val
              100              105              110
Tyr Glu Leu Leu Glu Lys Asp Cys Asn Ser Lys Lys Val Ser
              115              120              125 126

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<210> 1672
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 1672
 Glu Arg Val Arg Asn Ser Leu Phe Pro Gly Arg Gly Asp Ser Gln Cys
 1 5 10 15
 Ala Cys Cys Pro Ser Ser Pro Val Trp Val Phe Leu Glu Thr Gly Phe
 20 25 30
 Leu Phe Pro Trp Leu Phe Leu Gln Val Glu Val Ile Lys Lys Ala Tyr
 35 40 45
 Met Gln Gly Glu Val Glu Phe Glu Asp Gly Glu Asn Gly Lys Asp Gly
 50 55 60
 Ala Ala Ser Pro Arg Asn Val Gly His Asn Ile Tyr Ile Leu Ala His
 65 70 75 80
 Gln Leu Ala Arg His
 85

<210> 1673
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 1673
 Lys Glu Leu Leu Phe Tyr His Leu Ile Val Asn Asn Ile Asn Phe Phe
 1 5 10 15
 Asn Thr Arg Tyr Ala Lys Ile His Ile Pro Ile Ile Ala Ser Val Ser
 20 25 30
 Glu His Gln Pro Thr Thr Trp Val Ser Phe Phe Phe Asp Leu His Ile
 35 40 45
 Leu Val Cys Thr Phe Pro Ala Gly Leu Trp Phe Cys Ile Lys Asn Ile
 50 55 60
 Asn Asp Glu Arg Val Phe Gly Lys Arg Gly Phe
 65 70 75

<210> 1674
 <211> 91
 <212> PRT
 <213> Homo sapiens

<400> 1674
 Leu Cys Tyr Phe Ser Ala Arg Tyr His Gln Arg Lys Ile Phe Gly Ile
 1 5 10 15
 Leu Tyr Ile Phe Thr Leu Ser Ala Ile Asn Arg Lys Glu Pro Asn Leu
 20 25 30
 Phe Ile Tyr Leu Phe Ile Phe Phe Glu Met Glu Ser His Ser Val Thr
 35 40 45
 His Ala Gly Val Gln Arg His Asn Leu Asn Ser Leu Gln Pro Leu Pro
 50 55 60
 Pro Gly Phe Lys Arg Phe Ser Cys Leu Cys Phe Leu Ser Ser Trp Asn
 65 70 75 80
 Tyr Arg Gly Ala Pro Pro Gly Pro Ala Asn Phe
 85 90 91

<210> 1675
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 1675
 Asn Asp Phe Leu Pro Leu Tyr Phe Gly Trp Val Leu Thr Lys Lys Ser
 1 5 10 15
 Ser Glu Thr Leu Arg Lys Ala Gly Gln Val Phe Leu Glu Glu Leu Gly
 20 25 30
 Asn His Lys Ala Phe Lys Lys Glu Leu Arg Gln Cys Arg Trp Gln Val
 35 40 45
 Gly Ala Leu
 50 51

<210> 1676
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 1676
 Lys Met Val Arg Gly Ser Lys Lys Leu Ile Ser Phe Phe Pro Gly Gly
 1 5 10 15
 Pro Tyr Gly Ile Leu Ala Gly Arg Asp Pro Ser Lys Gly Leu Ala Thr
 20 25 30
 Phe Cys Leu Asn Lys Glu Ala Leu Lys Asp Glu Phe Glu
 35 40 45

<210> 1677
 <211> 128
 <212> PRT
 <213> Homo sapiens

<400> 1677
 Leu Thr Leu Glu Phe Leu Leu Leu Pro Ala Ala Ser Glu Leu Ala His
 1 5 10 15
 Gly Lys Arg Leu Ala Cys Cys Ile Val Asp His Lys Leu Pro Glu Cys
 20 25 30
 Gly Phe Tyr Gly Leu Tyr Asp Lys Ile Leu Leu Phe Lys His Asp Pro
 35 40 45
 Thr Ser Ala Asn Leu Leu Gln Leu Val Arg Ser Ser Gly Asp Ile Gln
 50 55 60
 Glu Gly Asp Leu Val Glu Val Val Leu Ser Ala Ser Ala Thr Phe Glu
 65 70 75 80
 Asp Phe Gln Ile Arg Pro His Ala Leu Thr Val His Ser Tyr Arg Ala
 85 90 95
 Pro Ala Phe Cys Asp His Cys Gly Glu Met Leu Phe Gly Leu Val Arg
 100 105 110
 Gln Gly Leu Lys Cys Asp Gly Cys Gly Leu Asn Tyr His Lys Arg Cys
 115 120 125 128

<210> 1678

<211> 185
 <212> PRT
 <213> Homo sapiens

<400> 1678
 Ile Thr Arg Pro Thr Ile Ser Cys Gln Arg Pro Gly Pro Gly Leu Ala
 1 5 10 15
 Ala Gly Met Leu Pro Tyr Thr Val Asn Phe Lys Val Ser Ala Arg Thr
 20 25 30
 Leu Thr Gly Ala Leu Asn Ala His Asn Lys Ala Ala Val Asp Trp Gly
 35 40 45
 Trp Gln Gly Leu Ile Ala Tyr Gly Cys His Ser Leu Val Val Val Ile
 50 55 60
 Asp Ser Ile Thr Ala Gln Thr Leu Gln Val Leu Glu Lys His Lys Ala
 65 70 75 80
 Asp Val Val Lys Val Lys Trp Ala Arg Glu Asn Tyr His His Asn Ile
 85 90 95
 Gly Ser Pro Tyr Cys Leu Arg Leu Ala Ser Ala Asp Val Asn Gly Lys
 100 105 110
 Ile Ile Val Trp Asp Val Ala Ala Gly Val Ala Gln Cys Glu Ile Gln
 115 120 125
 Glu His Ala Lys Pro Ile Gln Asp Val Gln Trp Leu Trp Asn Gln Asp
 130 135 140
 Ala Ser Arg Asp Leu Leu Leu Ala Ile His Pro Pro Asn Tyr Ile Val
 145 150 155 160
 Leu Trp Asn Ala Asp Thr Gly Thr Lys Leu Trp Lys Lys Ser Tyr Ala
 165 170 175
 Asp Asn Ile Leu Ser Phe Ser Phe Asp
 180 185

<210> 1679
 <211> 217
 <212> PRT
 <213> Homo sapiens

<400> 1679
 Ser Val Asn Leu Pro Pro Ser Leu Trp Pro Trp Glu Glu Ala Met Asp
 1 5 10 15
 Ser Thr Lys Ser Glu Pro Leu Lys Gly Ser Pro Glu Ala Glu Asp Gly
 20 25 30
 Asn Ile Glu Tyr Lys Lys Leu Val Asn Pro Ser Gln Tyr Arg Phe Glu
 35 40 45
 His Leu Val Thr Gln Met Lys Trp Arg Leu Gln Glu Gly Arg Gly Glu
 50 55 60
 Ala Val Tyr Gln Ile Gly Val Glu Asp Asn Gly Leu Leu Val Gly Leu
 65 70 75 80
 Ala Glu Glu Glu Met Arg Ala Ser Leu Lys Thr Leu His Arg Met Ala
 85 90 95
 Glu Lys Val Gly Ala Asp Ile Thr Val Leu Arg Glu Arg Glu Val Asp
 100 105 110
 Tyr Asp Ser Asp Met Pro Arg Lys Ile Thr Glu Val Leu Val Arg Lys
 115 120 125
 Val Pro Asp Asn Gln Gln Phe Leu Asp Leu Arg Val Ala Val Leu Gly
 130 135 140
 Asn Val Asp Ser Gly Lys Ser Thr Leu Leu Gly Val Leu Thr Gln Gly
 145 150 155 160
 Glu Leu Asp Asn Gly Arg Gly Arg Ala Arg Leu Asn Leu Phe Arg His
 165 170 175
 Leu His Glu Ile Gln Ser Gly Arg Thr Ser Ser Ile Ser Phe Glu Ile
 180 185 190

Leu Gly Phe Asn Ser Lys Gly Glu Val His Gly Ile Asn Gly Thr Gln
 195 200 205
 Trp Gly Gln Thr Leu Arg Met Gly Trp
 210 215 217

<210> 1680
 <211> 131
 <212> PRT
 <213> Homo sapiens

<400> 1680
 Leu Cys Ser Thr Leu Leu Leu Thr Ile Pro Ser Trp Val Leu Ser
 1 5 10 15
 Gln Ile Thr Leu Lys Glu Ser Gly Pro Thr Leu Met Lys Pro Thr Glu
 20 25 30
 Thr Leu Thr Leu Thr Cys Thr Phe Ser Gly Phe Ser Leu Asn Thr Ser
 35 40 45
 Gly Val Gly Val Ala Trp Ile Arg Gln Pro Pro Gly Lys Ala Leu Glu
 50 55 60
 Trp Leu Ala Leu Ile Tyr Trp Asp Asp Asp Lys Arg Tyr Ser Pro Ser
 65 70 75 80
 Leu Asn Asp Arg Leu Thr Ile Ala Lys Asp Thr Ser Arg Asn Gln Val
 85 90 95
 Val Leu Thr Met Thr Asn Met Gly Pro Val Asp Thr Ala Thr Tyr Tyr
 100 105 110
 Cys Ala Gln Phe Ala Arg Gly Ala Arg Gly Ser Asn Trp Phe Asp Pro
 115 120 125
 Trp Gly Gln
 130 131

<210> 1681
 <211> 501
 <212> PRT
 <213> Homo sapiens

<400> 1681
 Ala Gly Ile Arg His Glu Ala Pro Pro Thr Thr Ser Asn Arg His Arg
 1 5 10 15
 Arg Gln Ile Asp Arg Gly Val Thr His Leu Asn Ile Ser Gly Leu Lys
 20 25 30
 Met Pro Arg Gly Ile Ala Ile Asp Trp Val Ala Gly Asn Val Tyr Trp
 35 40 45
 Thr Asp Ser Gly Arg Asp Val Ile Glu Val Ala Gln Met Lys Gly Glu
 50 55 60
 Asn Arg Lys Thr Leu Ile Ser Gly Met Ile Asp Glu Pro His Ala Ile
 65 70 75 80
 Val Val Asp Pro Leu Arg Gly Thr Met Tyr Trp Ser Asp Trp Gly Asn
 85 90 95
 His Pro Lys Ile Glu Thr Ala Ala Met Asp Gly Thr Leu Arg Glu Thr
 100 105 110
 Leu Val Gln Asp Asn Ile Gln Trp Pro Thr Gly Leu Ala Val Asp Tyr
 115 120 125
 His Asn Glu Arg Leu Tyr Trp Ala Asp Ala Lys Leu Ser Val Ile Gly
 130 135 140
 Ser Ile Arg Leu Asn Gly Thr Asp Pro Ile Val Ala Ala Asp Ser Lys
 145 150 155 160
 Arg Gly Leu Ser His Pro Phe Ser Ile Asp Val Phe Glu Asp Tyr Ile
 165 170 175

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Tyr Gly Val Thr Tyr Ile Asn Asn Arg Val Phe Lys Ile His Lys Phe
      180      185      190
Gly His Ser Pro Leu Val Asn Leu Thr Gly Gly Leu Ser His Ala Ser
      195      200      205
Asp Val Val Leu Tyr His Gln His Lys Gln Pro Glu Val Thr Asn Pro
      210      215      220
Cys Asp Arg Lys Lys Cys Glu Trp Leu Cys Leu Leu Ser Pro Ser Gly
      225      230      235      240
Pro Val Cys Thr Cys Pro Asn Gly Lys Arg Leu Asp Asn Gly Thr Cys
      245      250      255
Val Pro Val Pro Ser Pro Thr Pro Pro Asp Ala Pro Arg Pro Gly
      260      265      270
Thr Cys Asn Leu Gln Cys Phe Asn Gly Gly Ser Cys Phe Leu Asn Ala
      275      280      285
Arg Arg Gln Pro Lys Cys Arg Cys Gln Pro Arg Tyr Thr Gly Asp Lys
      290      295      300
Cys Glu Leu Asp Gln Cys Trp Glu His Cys Arg Asn Gly Gly Thr Cys
      305      310      315      320
Ala Ala Ser Pro Ser Gly Met Pro Thr Cys Arg Cys Pro Thr Gly Phe
      325      330      335
Thr Gly Pro Lys Cys Thr Gln Gln Val Cys Ala Gly Tyr Cys Ala Asn
      340      345      350
Asn Ser Thr Cys Thr Val Asn Gln Gly Asn Gln Pro Gln Cys Arg Cys
      355      360      365
Leu Pro Gly Phe Leu Gly Asp Arg Cys Gln Tyr Arg Gln Cys Ser Gly
      370      375      380
Tyr Cys Glu Asn Phe Gly Thr Cys Gln Met Ala Ala Asp Gly Ser Arg
      385      390      395      400
Gln Cys Arg Cys Thr Ala Tyr Phe Glu Gly Ser Arg Cys Glu Val Asn
      405      410      415
Lys Cys Ser Arg Cys Leu Glu Gly Ala Cys Val Val Asn Lys Gln Ser
      420      425      430
Gly Asp Val Thr Cys Asn Cys Thr Asp Gly Arg Val Ala Pro Ser Cys
      435      440      445
Leu Thr Cys Val Gly His Cys Ser Asn Gly Gly Ser Cys Thr Met Asn
      450      455      460
Ser Lys Met Met Pro Glu Cys Gln Cys Pro Pro His Met Thr Gly Pro
      465      470      475      480
Arg Cys Glu Glu His Val Phe Ser Gln Gln Gln Pro Gly His Ile Ala
      485      490      495
Ser Ile Leu Ile Pro
      500 501

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<210> 1682
<211> 316
<212> PRT
<213> Homo sapiens

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<400> 1682
Thr Thr Thr Ile Ser Asn Phe His Thr Gln Val Asn Arg Thr Tyr Cys
  1      5      10      15
Cys Gly Thr Tyr Arg Ala Gly Pro Met Arg Gln Ile Ser Leu Val Gly
  20      25      30
Ala Val Asp Glu Glu Val Gly Asp Tyr Phe Pro Glu Phe Leu Asp Met
  35      40      45
Leu Glu Glu Ser Pro Phe Leu Lys Met Thr Leu Pro Trp Gly Thr Leu
  50      55      60
Ser Ser Leu Arg Leu Gln Cys Arg Ser Gln Ser Asp Asp Gly Pro Ile
  65      70      75      80
Met Trp Val Arg Pro Gly Glu Gln Met Ile Pro Thr Ala Asp Met Pro
  85      90      95

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Lys Ser Pro Phe Lys Arg Arg Arg Ser Met Asn Glu Ile Lys Asn Leu
 100 105 110
 Gln Tyr Leu Pro Arg Thr Ser Glu Pro Arg Glu Val Leu Phe Glu Asp
 115 120 125
 Arg Thr Arg Ala His Ala Asp His Val Gly Gln Gly Phe Asp Trp Gln
 130 135 140
 Ser Thr Ala Ala Val Gly Val Leu Lys Ala Val Gln Phe Gly Glu Trp
 145 150 155 160
 Ser Asp Gln Pro Arg Ile Thr Lys Asp Val Ile Cys Phe His Ala Glu
 165 170 175
 Asp Phe Thr Asp Val Val Gln Arg Leu Gln Leu Asp Leu His Glu Pro
 180 185 190
 Pro Val Ser Gln Cys Val Gln Trp Val Asp Glu Ala Lys Leu Asn Gln
 195 200 205
 Met Arg Arg Glu Gly Ile Arg Tyr Ala Arg Ile Gln Leu Cys Asp Asn
 210 215 220
 Asp Ile Tyr Phe Ile Pro Arg Asn Val Ile His Gln Phe Lys Thr Val
 225 230 235 240
 Ser Ala Val Cys Ser Leu Ala Trp His Ile Arg Leu Lys Gln Tyr His
 245 250 255
 Pro Val Val Glu Ala Thr Gln Asn Thr Glu Ser Asn Ser Asn Met Asp
 260 265 270
 Cys Gly Leu Thr Gly Lys Arg Glu Leu Glu Val Asp Ser Gln Cys Val
 275 280 285
 Arg Ile Lys Thr Glu Ser Glu Glu Ala Cys Thr Glu Ile Gln Leu Leu
 290 295 300
 Thr Thr Ala Ser Ser Ser Phe Pro Pro Ala Ser Glu
 305 310 315 316

<210> 1683
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 1683
 Ser Ala Cys Ser Thr Gly Pro Glu Leu Pro Gly Arg Ala Thr Arg Ser
 1 5 10 15
 Leu Thr Arg Pro Ala Asn Gln Lys Gly Cys Asp Gly Asp Arg Leu Tyr
 20 25 30
 Tyr Asp Gly Cys Ala Met Ile Ala Met Asn Gly Ser Val Phe Ala Gln
 35 40 45
 Gly Ser Gln Phe Ser Leu Asp Asp Val Glu Val Leu Thr Ala Thr Leu
 50 55 60
 Asp Leu Glu Asp Val Arg Ser Tyr Arg Ala Glu Ile Ser Ser Arg Asn
 65 70 75 80
 Leu Ala Val Ser Ala Pro Val Asp Thr Cys Val Gly Cys Ser Ser Lys
 85 90 95
 Thr Trp Lys Val Ala Pro Phe Val Arg Ala Trp Trp Arg Pro
 100 105 110

<210> 1684
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 1684
 Val Ile Thr Asp Leu Glu Glu Gln Leu Asn Gln Leu Thr Glu Asp Asn
 1 5 10 15

Ala Glu Leu Asn Asn Gln Asn Phe Tyr Leu Ser Lys Gln Leu Asp Glu
 20 25 30
 Ala Ser Gly Ala Asn Asp Glu Ile Val Gln Leu Arg Ser Glu Val Asp
 35 40 45
 His Leu Arg Arg Glu Ile Thr Glu Arg Glu Met Gln Leu Thr Ser Gln
 50 55 60
 Lys Gln Val Arg Arg Val Asn Lys Val Val Arg Ser Leu Glu Asp Phe
 65 70 75 80

<210> 1685
 <211> 281
 <212> PRT
 <213> Homo sapiens

<400> 1685
 Trp Asp Ala Trp Gly Asp Trp Ser Asp Cys Ser Arg Thr Cys Gly Gly
 1 5 10 15
 Gly Ala Ser Tyr Ser Leu Arg Arg Cys Leu Thr Gly Arg Asn Cys Glu
 20 25 30
 Gly Gln Asn Ile Arg Tyr Lys Thr Cys Ser Asn His Asp Cys Pro Pro
 35 40 45
 Asp Ala Glu Asp Phe Arg Ala Gln Gln Cys Ser Ala Tyr Asn Asp Val
 50 55 60
 Gln Tyr Gln Gly His Tyr Tyr Glu Trp Leu Pro Arg Tyr Asn Asp Pro
 65 70 75 80
 Ala Ala Pro Cys Ala Leu Lys Cys His Ala Gln Gly Gln Asn Leu Val
 85 90 95
 Val Glu Leu Ala Pro Lys Val Leu Asp Gly Thr Arg Cys Asn Thr Asp
 100 105 110
 Ser Leu Asp Met Cys Ile Ser Gly Ile Cys Gln Ala Val Gly Cys Asp
 115 120 125
 Arg Gln Leu Gly Ser Asn Ala Lys Glu Asp Asn Cys Gly Val Cys Ala
 130 135 140
 Gly Asp Gly Ser Thr Cys Arg Leu Val Arg Gly Gln Ser Lys Ser His
 145 150 155 160
 Val Ser Pro Glu Lys Arg Glu Glu Asn Val Ile Ala Val Pro Leu Gly
 165 170 175
 Ser Arg Ser Val Arg Ile Thr Val Lys Gly Pro Ala His Leu Phe Ile
 180 185 190
 Glu Ser Lys Thr Leu Gln Gly Ser Lys Gly Glu His Ser Phe Asn Ser
 195 200 205
 Pro Gly Val Phe Val Val Glu Asn Thr Thr Val Glu Phe Gln Arg Gly
 210 215 220
 Ser Glu Arg Gln Thr Phe Lys Ile Pro Gly Pro Leu Met Ala Asp Phe
 225 230 235 240
 Ile Phe Lys Thr Arg Tyr Thr Ala Ala Lys Asp Ser Val Val Gln Phe
 245 250 255
 Phe Phe Tyr Gln Pro Ile Ser His Gln Trp Arg Gln Thr Asp Phe Phe
 260 265 270
 Pro Cys Thr Val Thr Cys Gly Gly Gly
 275 280 281

<210> 1686
 <211> 98
 <212> PRT
 <213> Homo sapiens

<400> 1686
 Val Val Gly Lys Gln Glu Ala Gly Ala His Ser Asp Ser Cys Cys Leu
 1 5 10 15
 Leu His Thr Pro Pro Arg Leu Thr Pro Ala His Ser Arg Lys Ala Leu
 20 25 30
 Arg Asn Ser Arg Ile Val Ser Gln Lys Asp Asp Val His Val Cys Ile
 35 40 45
 Met Cys Leu Arg Ala Ile Met Asn Tyr Gln Val Ser Arg Gly Ala Trp
 50 55 60
 Asp Trp Arg Leu Gly Ser Pro Ala Cys Pro His Trp Gly Leu His Lys
 65 70 75 80
 Leu Pro Arg Leu Trp Asp Pro Leu Ser Leu Tyr Pro Val Leu Cys Trp
 85 90 95
 Gly Thr
 98

<210> 1687
 <211> 236
 <212> PRT
 <213> Homo sapiens

<400> 1687
 Ile Leu Thr Ser Leu Val Glu Leu Thr Arg Phe Glu Thr Leu Thr Pro
 1 5 10 15
 Arg Phe Ser Ala Thr Val Pro Pro Cys Trp Val Glu Val Gln Gln Glu
 20 25 30
 Gln Gln Gln Arg Arg His Pro Gln His Leu His Gln Gln His His Gly
 35 40 45
 Asp Ala Ala Gln His Thr Arg Thr Trp Lys Leu Gln Thr Asp Ser Asn
 50 55 60
 Ser Trp Asp Glu His Val Phe Glu Leu Val Leu Pro Lys Ala Cys Met
 65 70 75 80
 Val Gly His Val Asp Phe Lys Phe Val Leu Asn Ser Asn Ile Thr Asn
 85 90 95
 Ile Pro Gln Ile Gln Val Thr Leu Leu Lys Asn Lys Ala Pro Gly Leu
 100 105 110
 Gly Lys Val Asn Gly Leu Arg Leu Cys Pro Phe Leu Glu Asp His Lys
 115 120 125
 Glu Asp Ile Leu Cys Gly Pro Val Trp Leu Ala Ser Gly Leu Asp Leu
 130 135 140
 Ser Gly His Ala Gly Met Leu Thr Leu Thr Ser Pro Lys Leu Val Lys
 145 150 155 160
 Gly Met Ala Gly Gly Lys Tyr Arg Ser Phe Leu Ile His Val Lys Ala
 165 170 175
 Val Asn Glu Arg Gly Thr Glu Glu Ile Cys Asn Gly Gly Met Arg Pro
 180 185 190
 Val Val Arg Leu Pro Ser Leu Lys His Gln Ser Asn Lys Gly Tyr Ser
 195 200 205
 Leu Ala Ser Leu Leu Ala Lys Val Ala Ala Gly Lys Glu Lys Ser Ser
 210 215 220
 Asn Val Lys Asn Glu Asn Thr Ser Gly Thr Arg Lys
 225 230 235 236

<210> 1688
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 1688
 Lys Ala Phe Tyr Asn Tyr His Val Leu Glu Leu Leu Gln Met Leu Val
 1 5 10 15
 Thr Gly Gly Val Ser Ser Gln Leu Glu Gln His Leu Asp Lys Asp Lys
 20 25 30
 Val Tyr Gly Val Ala Asp Ser Cys Thr Ser Leu Leu Ser Gly Arg Asn
 35 40 45
 Arg Cys Lys Leu Gly Leu Leu Ser Leu His Glu Thr Ile Leu Ser Asp
 50 55 60
 Val Asn Pro Arg Asn Thr Phe Gly Gln Leu Phe Cys Gly Ser Leu Asp
 65 70 75 80
 Leu Phe Gly Ile Leu Cys Val Gly Leu Tyr Arg Ile Ile Asp Glu Glu
 85 90 95
 Glu Leu Asn Pro
 100

<210> 1689
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 1689
 Cys Phe Leu Cys Leu Ser Gly Asp Phe Met Val Met Thr Ile Phe Phe
 1 5 10 15
 Asn Val Ser Arg Arg Phe Gly Tyr Val Ala Phe Gln Asn Tyr Val Pro
 20 25 30
 Ser Ser Val Thr Thr Met Leu Ser Trp Val
 35 40 42

<210> 1690
 <211> 415
 <212> PRT
 <213> Homo sapiens

<400> 1690
 Asp Leu Trp Gln Phe Thr Pro Leu His Glu Ala Ala Ser Lys Asn Arg
 1 5 10 15
 Val Glu Val Cys Ser Leu Leu Leu Ser Tyr Gly Ala Asp Pro Thr Leu
 20 25 30
 Leu Asn Cys His Asn Lys Ser Ala Ile Asp Leu Ala Pro Thr Pro Gln
 35 40 45
 Leu Lys Glu Arg Leu Ala Tyr Glu Phe Lys Gly His Ser Leu Leu Gln
 50 55 60
 Ala Ala Arg Glu Ala Asp Val Thr Arg Ile Lys Lys His Leu Ser Leu
 65 70 75 80
 Glu Met Val Asn Phe Lys His Pro Gln Thr His Glu Thr Ala Leu His
 85 90 95
 Cys Ala Ala Ala Ser Pro Tyr Pro Lys Arg Lys Gln Ile Cys Glu Leu
 100 105 110
 Leu Leu Arg Lys Gly Ala Asn Ile Asn Glu Lys Thr Lys Glu Phe Leu
 115 120 125
 Thr Pro Leu His Val Ala Ser Glu Lys Ala His Asn Asp Val Val Glu
 130 135 140
 Val Val Val Lys His Glu Ala Lys Val Asn Ala Leu Asp Asn Leu Gly
 145 150 155 160
 Gln Thr Ser Leu His Arg Ala Ala Tyr Cys Gly His Leu Gln Thr Cys
 165 170 175

```

Arg Leu Leu Leu Ser Tyr Gly Cys Asp Pro Asn Ile Ile Ser Leu Gln
      180      185      190
Gly Phe Thr Ala Leu Gln Met Gly Asn Glu Asn Val Gln Gln Leu Leu
      195      200      205
Gln Glu Gly Ile Ser Leu Gly Asn Ser Glu Ala Asp Arg Gln Leu Leu
      210      215      220
Glu Ala Ala Lys Ala Gly Asp Val Glu Thr Val Lys Lys Leu Cys Thr
      225      230      235      240
Val Gln Ser Val Asn Cys Arg Asp Ile Glu Gly Arg Gln Ser Thr Pro
      245      250      255
Leu His Phe Ala Ala Gly Tyr Asn Arg Val Ser Val Val Glu Tyr Leu
      260      265      270
Leu Gln His Gly Ala Asp Val His Ala Lys Asp Lys Gly Gly Leu Val
      275      280      285
Pro Leu His Asn Ala Cys Ser Tyr Gly His Tyr Glu Val Ala Glu Leu
      290      295      300
Leu Val Lys His Gly Ala Val Val Asn Val Ala Asp Leu Trp Lys Phe
      305      310      315      320
Thr Pro Leu His Glu Ala Ala Ala Lys Gly Lys Tyr Glu Ile Cys Lys
      325      330      335
Leu Leu Leu Gln His Gly Ala Asp Pro Thr Lys Lys Asn Arg Asp Gly
      340      345      350
Asn Thr Pro Leu Asp Leu Val Lys Asp Gly Asp Thr Asp Ile Gln Asp
      355      360      365
Leu Leu Arg Gly Asp Ala Ala Leu Leu Asp Ala Ala Lys Lys Gly Cys
      370      375      380
Leu Ala Arg Val Lys Lys Leu Ser Ser Pro Asp Asn Val Asn Cys Arg
      385      390      395      400
Asp Thr Gln Gly Arg His Ser Thr Pro Leu His Leu Ala Gly Lys
      405      410      415

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<210> 1691
 <211> 182
 <212> PRT
 <213> Homo sapiens

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<400> 1691
Gly Val Leu Ile Pro Ser Phe Gln Asn Gln Leu Phe Ala Asp Ile Leu
  1      5      10      15
Ala Gly Ile Glu Ser Val Thr Ser Glu His Asn Tyr Gln Thr Leu Ile
      20      25      30
Ala Asn Tyr Asn Tyr Asp Arg Asp Ser Glu Glu Glu Ser Val Ile Asn
      35      40      45
Leu Leu Ser Tyr Asn Ile Asp Gly Ile Ile Leu Ser Glu Lys Tyr His
      50      55      60
Thr Ile Arg Thr Val Lys Phe Leu Arg Ser Ala Thr Ile Pro Val Val
      65      70      75      80
Glu Leu Met Asp Val Gln Gly Glu Arg Leu Asp Met Glu Val Gly Phe
      85      90      95
Asp Asn Arg Gln Ala Ala Phe Asp Met Val Cys Thr Met Leu Glu Lys
      100      105      110
Arg Val Arg His Lys Ile Leu Tyr Leu Gly Ser Lys Asp Asp Thr Arg
      115      120      125
Asp Glu Gln Arg Tyr Gln Gly Tyr Cys Asp Ala Met Met Leu His Asn
      130      135      140
Leu Ser Pro Leu Arg Met Asn Pro Arg Ala Ile Ser Ser Ile His Leu
      145      150      155      160
Arg Met Gln Leu Met Arg Asp Ala Leu Ser Ala Asn Pro Asp Leu Asp
      165      170      175
Gly Val Phe Cys Thr Asn
      180      182

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<210> 1692
 <211> 153
 <212> PRT
 <213> Homo sapiens

<400> 1692
 Arg Ile Asn Arg Cys Arg Lys Pro Ser Asp Ala Asp Ile Leu Val Pro
 1 5 10 15
 Gly Asp Thr Ile Ser Leu Ile Gly Thr Thr Ser Leu Arg Ile Asp Tyr
 20 25 30
 Asn Glu Ile Asp Asp Asn Arg Val Thr Ala Glu Glu Val Asp Ile Leu
 35 40 45
 Leu Arg Glu Gly Glu Lys Leu Ala Pro Val Met Ala Lys Thr Arg Ile
 50 55 60
 Leu Arg Ala Tyr Ser Gly Val Arg Pro Leu Val Ala Ser Asp Asp Asp
 65 70 75 80
 Pro Ser Gly Arg Asn Val Ser Arg Gly Ile Val Leu Leu Asp His Ala
 85 90 95
 Glu Arg Asp Gly Leu Asp Gly Phe Ile Thr Ile Thr Gly Gly Lys Leu
 100 105 110
 Met Thr Tyr Arg Leu Met Ala Glu Trp Ala Thr Asp Ala Val Cys Arg
 115 120 125
 Lys Leu Gly Asn Thr Arg Pro Cys Thr Thr Ala Asp Leu Ala Leu Pro
 130 135 140
 Gly Ser Gln Glu Pro Ala Lys Val Pro
 145 150 153

<210> 1693
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 1693
 Leu Leu Ile Tyr Leu Ala Ile Phe Ala Pro Val Ala Met Ser Ala Leu
 1 5 10 15
 Ala Gly Val Lys Ser Val Gln Gln Val Arg Ile Arg Ala Ala Gln Ser
 20 25 30
 Leu Gly Ala Ser Arg Ala Gln Val Leu Trp Phe Val Ile Leu Pro Gly
 35 40 45
 Ala Leu Pro Glu Ile Leu Thr Gly Leu Arg Ile Gly Leu Gly Val Gly
 50 55 60
 Trp Ser Thr Leu Val Ala Ala Glu Leu Ile Ala Ala Thr Arg Gly Leu
 65 70 75 80
 Gly Phe Met
 83

<210> 1694
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 1694
 Leu Tyr Phe Asp Ala Tyr Leu Gln Ser Leu Gln Val Ala Ala Ile Ser
 1 5 10 15

Thr Phe Cys Cys Leu Leu Ile Gly Tyr Pro Leu Ala Trp Ala Val Ala
 20 25 30
 His Ser Lys Pro Ser Thr Arg Asn Ile Leu Leu Leu Leu
 35 40 45

<210> 1695
 <211> 155
 <212> PRT
 <213> Homo sapiens

<400> 1695
 Leu Lys Ile Arg Gly Gln Arg Ile Glu Leu Gly Glu Ile Asp Arg Val
 1 5 10 15
 Met Gln Ala Leu Pro Asp Val Glu Gln Ala Val Thr His Ala Cys Val
 20 25 30
 Ile Asn Gln Ala Ala Ala Thr Gly Gly Asp Ala Arg Gln Leu Val Gly
 35 40 45
 Tyr Leu Val Ser Gln Ser Gly Leu Pro Leu Asp Thr Ser Ala Leu Gln
 50 55 60
 Ala Gln Leu Arg Glu Thr Leu Pro Pro His Met Val Pro Val Val Leu
 65 70 75 80
 Leu Gln Leu Pro Gln Leu Pro Leu Ile Ala Asn Gly Lys Leu Asp Arg
 85 90 95
 Lys Ala Leu Pro Leu Pro Glu Leu Lys Ala Gln Ala Pro Gly Arg Ala
 100 105 110
 Pro Lys Ala Gly Ser Glu Thr Ile Ile Ala Ala Ala Phe Ser Ser Leu
 115 120 125
 Leu Gly Cys Asp Val Gln Asp Ala Asp Phe Phe Ala Leu Gly
 130 135 140
 Gly His Ser Leu Leu Ala Met Lys Leu Ala Thr
 145 150 155

<210> 1696
 <211> 134
 <212> PRT
 <213> Homo sapiens

<400> 1696
 Gln Asn Ile Thr Ser Lys Asp Leu Asp Val Arg Leu Asp Pro Gln Thr
 1 5 10 15
 Val Pro Ile Glu Leu Glu Gln Leu Val Leu Ser Phe Asn His Met Ile
 20 25 30
 Glu Arg Ile Glu Asp Val Phe Thr Arg Gln Ser Asn Phe Ser Ala Asp
 35 40 45
 Ile Ala His Glu Ile Arg Thr Pro Ile Thr Asn Leu Ile Thr Gln Thr
 50 55 60
 Glu Ile Ala Leu Ser Gln Ser Arg Ser Gln Lys Glu Leu Glu Asp Val
 65 70 75 80
 Leu Tyr Ser Asn Leu Glu Glu Leu Thr Arg Met Ala Lys Met Val Ser
 85 90 95
 Asp Met Leu Phe Leu Ala Gln Ala Asp Asn Asn Gln Leu Ile Pro Glu
 100 105 110
 Lys Lys Met Leu Asn Leu Ala His Glu Val Gly Lys Val Phe Asp Gln
 115 120 125
 Phe Glu Ala Leu Pro Glu
 130 134

<210> 1697
 <211> 112
 <212> PRT
 <213> Homo sapiens

<400> 1697
 Asn Glu Leu Thr Phe Lys Glu Ala Glu Ile Ser Lys Leu Tyr Thr Lys
 1 5 10 15
 Val His Pro Ala Tyr Arg Thr Leu Leu Glu Lys Arg Gln Ala Leu Glu
 20 25 30
 Asp Glu Lys Ala Lys Leu Asn Gly Arg Val Thr Ala Met Pro Lys Thr
 35 40 45
 Gln Gln Glu Ile Val Arg Leu Thr Arg Asp Val Glu Ser Gly Gln Gln
 50 55 60
 Val Tyr Met Gln Leu Leu Asn Lys Glu Gln Glu Lys Ile Thr Glu
 65 70 75 80
 Ala Ser Thr Val Gly Asp Val Arg Ile Val Asp Pro Ala Ile Thr Gln
 85 90 95
 Pro Gly Val Leu Lys Pro Lys Lys Gly Leu Ile Ile Leu Gly Ala Ile
 100 105 110 112

<210> 1698
 <211> 238
 <212> PRT
 <213> Homo sapiens

<400> 1698
 Thr Gln Ala Met Val Trp Gln Gln Lys Ala Cys Ala Glu Asp Asp Pro
 1 5 10 15
 Gln Leu Ser Gly Arg His Trp Leu His Ala Ala Thr Leu Tyr Asn Ile
 20 25 30
 Ala Ala Tyr Pro His Leu Lys Gly Asp Asp Leu Ala Glu Gln Ala Gln
 35 40 45
 Ala Leu Ser Asn Arg Ala Tyr Glu Glu Ala Ala Gln Arg Leu Pro Gly
 50 55 60
 Thr Met Arg Gln Met Glu Phe Thr Val Pro Gly Gly Ala Pro Ile Thr
 65 70 75 80
 Gly Phe Leu His Met Pro Lys Gly Asp Gly Pro Phe Pro Thr Val Leu
 85 90 95
 Met Cys Gly Gly Leu Asp Ala Met Gln Thr Asp Tyr Tyr Ser Leu Tyr
 100 105 110
 Glu Arg Tyr Phe Ala Pro Arg Gly Ile Ala Met Leu Thr Ile Asp Met
 115 120 125
 Pro Ser Val Gly Phe Ser Ser Lys Trp Lys Leu Thr Gln Asp Ser Ser
 130 135 140
 Leu Leu His Gln His Val Leu Lys Ala Leu Pro Asn Val Pro Trp Val
 145 150 155 160
 Asp His Thr Arg Val Ala Ala Phe Gly Phe Arg Phe Gly Ala Asn Val
 165 170 175
 Ala Val Arg Leu Ala Tyr Leu Glu Ser Pro Arg Leu Lys Ala Val Ala
 180 185 190
 Cys Leu Gly Pro Val Val His Thr Leu Leu Ser Gly Leu Lys Cys Gln
 195 200 205
 Gln Gln Val Pro Glu Met Tyr Leu Asp Val Leu Ala Ser Arg Leu Gly
 210 215 220
 Met His Asp Ala Ser Thr Lys Ser Ser Thr Arg Glu Asn His
 225 230 235 238

<210> 1699
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 1699
 Arg Ile Arg Ser Ser Asp Pro Glu Ile Thr Leu Ala Gly Thr Pro Leu
 1 5 10 15
 His Ala Ala Tyr Leu Ile Gly Met Thr Leu Ile Cys Ala Gly Phe Ser
 20 25 30
 Val Gly Phe Gly Val Ala Met Ser Gln Ala Leu Gly Pro Phe Ser Leu
 35 40 45
 Arg Ala Gly Val Ala Ser Ser Thr Leu Gly Ile Ala Gln Val Cys Gly
 50 55 60
 Ser Ser Leu Trp Ile Trp Leu Ala Ala Val Val Gly Ile Gly Ala Trp
 65 70 75 80
 Asn Met
 82

<210> 1700
 <211> 140
 <212> PRT
 <213> Homo sapiens

<400> 1700
 Glu Ala Pro Glu Ala Thr Pro Gln Pro Ser Gln Pro Gly Pro Ser Ser
 1 5 10 15
 Pro Ile Ser Leu Ser Ala Glu Glu Glu Asn Ala Glu Gly Glu Val Ser
 20 25 30
 Arg Ala Asn Thr Pro Asp Ser Asp Ile Thr Glu Lys Thr Glu Asp Ser
 35 40 45
 Ser Val Pro Glu Thr Pro Asp Asn Glu Arg Lys Ala Ser Ile Ser Tyr
 50 55 60
 Phe Lys Asn Gln Arg Gly Ile Gln Tyr Ile Asp Leu Ser Ser Asp Ser
 65 70 75 80
 Glu Asp Val Val Ser Pro Asn Cys Ser Asn Thr Val Gln Glu Lys Thr
 85 90 95
 Phe Asn Lys Asp Thr Val Ile Ile Val Ser Glu Pro Ser Glu Asp Glu
 100 105 110
 Glu Ser Gln Gly Leu Pro Thr Met Ala Arg Arg Asn Asp Asp Ile Ser
 115 120 125
 Glu Leu Glu Asp Leu Ser Gly Met Glu Asp Leu Lys
 130 135 140

<210> 1701
 <211> 134
 <212> PRT
 <213> Homo sapiens

<400> 1701
 Ile Lys Lys Asn His Ile Ile Gly Tyr Gln Leu Leu His Arg Arg Ala
 1 5 10 15
 Leu Phe Glu Lys Arg Thr Arg Leu Ser Asp Tyr Ala Leu Ile Phe Gly
 20 25 30

```

Met Phe Gly Ile Val Val Met Val Ile Glu Thr Glu Leu Ser Trp Gly
      35      40      45
Ala Tyr Tyr Lys Ala Pro Leu Tyr Ser Leu Ala Leu Lys Cys Leu Ile
      50      55      60
Ser Leu Phe Thr Ile Ile Leu Leu Gly Leu Thr Ile Val Tyr His Ala
      65      70      75      80
Arg Glu Ile Gln Leu Phe Met Ala Asn Tyr Gly Ala Asp Asp Trp Arg
      85      90      95
Ser Ala Leu Thr Tyr Glu Pro Ile Phe Leu Ile Leu Leu Glu Ala Leu
      100      105      110
Arg Gly Val Ile His Ala Thr Pro Cys Arg Val Ser Leu Ser Leu Trp
      115      120      125
Asp Gly Leu Asp Leu Pro
      130      134

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<210> 1702
<211> 113
<212> PRT
<213> Homo sapiens

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<400> 1702
Ala Gln Leu Ala Glu Val Cys Pro Pro Gln Thr Leu Leu Thr Thr Asn
  1      5      10      15
Thr Ser Ser Ile Ser Ile Thr Ala Ile Ala Glu Ile Lys Asn Pro
      20      25      30
Glu Arg Val Ala Gly Leu His Phe Phe Asn Pro Ala Pro Val Met Lys
      35      40      45
Leu Val Glu Val Val Ser Gly Leu Ala Thr Ala Ala Glu Val Val Glu
      50      55      60
Gln Leu Cys Glu Leu Thr Leu Ser Trp Gly Lys Gln Pro Val Arg Cys
      65      70      75      80
His Ser Thr Pro Gly Phe Ile Val Asn Arg Val Ala Arg Pro Tyr Tyr
      85      90      95
Ser Glu Ala Trp Arg Ala Leu Glu Glu Gln Val Ala Ala Pro Glu Val
      100      105      110
Ile
113

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<210> 1703
<211> 62
<212> PRT
<213> Homo sapiens

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```

<400> 1703
His Phe Ser Leu Phe Arg Ile Ala Phe Ala Val Phe Leu Thr Tyr Met
  1      5      10      15
Thr Val Gly Leu Pro Leu Pro Val Ile Pro Leu Phe Val His His Glu
      20      25      30
Leu Gly Tyr Gly Asn Thr Met Val Gly Ile Ala Val Gly Ile Gln Phe
      35      40      45
Leu Ala Thr Val Leu Thr Arg Gly Tyr Ala Gly Arg Leu Ala
      50      55      60      62

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<210> 1704
<211> 47
<212> PRT

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<213> Homo sapiens

<400> 1704

```

Trp Gln Leu Phe His Leu Asn Gly Thr Phe Leu Asn Ile Gly Glu Thr
 1           5           10           15
Asp Thr Glu Ser Cys Val Asn Gly Trp Val Tyr Asp Arg Ser Ser Phe
          20           25           30
Pro Phe Ser Asn Met Thr Glu Val Arg Gly Leu Val Phe Leu Ser
      35           40           45           47

```

<210> 1705

<211> 252

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(246)

<223> Xaa = any amino acid or nothing

<400> 1705

```

Val Ile Asn Leu Val Tyr Leu Ile Ser Ser Pro Arg Pro Glu Leu Lys
 1           5           10           15
Pro Val Asp Lys Glu Ser Glu Val Val Met Lys Phe Pro Asp Gly Phe
          20           25           30
Glu Lys Phe Ser Pro Pro Ile Leu Gln Leu Asp Glu Val Asp Phe Tyr
      35           40           45
Tyr Asp Pro Lys His Val Ile Phe Ser Arg Leu Ser Val Ser Ala Asp
      50           55           60
Leu Glu Ser Arg Ile Cys Val Val Gly Glu Asn Gly Ala Gly Lys Ser
      65           70           75           80
Thr Met Leu Lys Leu Leu Gly Asp Leu Ala Pro Val Arg Gly Ile
          85           90           95
Arg His Ala His Arg Asn Leu Lys Ile Gly Tyr Phe Ser Gln His His
          100          105          110
Val Gly Ala Ala Gly Thr Xaa Thr Phe Ser Ala Cys Gly Asn Leu Leu
          115          120          125
Gly Thr Gln Val Phe Leu Gly Arg Pro Glu Glu Glu Tyr Arg His Gln
          130          135          140
Leu Gly Phe Gly Met Gly Ile Ser Gly Glu Leu Gly His Ala Ser Ser
          145          150          155          160
Leu Pro Ala Cys Leu Gly Gly Gln Lys Glu Ala Glu Val Ala Phe Cys
          165          170          175
Ser Asp Gly Leu Leu Pro Cys Pro Asn Phe Leu Ile Leu Asp Glu Pro
          180          185          190
Thr Asn His Leu Gly His Gly Arg Ala Ile Glu Ala Leu Gly Pro Cys
          195          200          205
Leu Gln Thr Ile Ser Gly Val Gly Val Ile Leu Val Ser His Glu Xaa
          210          215          220
Ser Ala Leu Ser Arg Leu Val Cys Arg Glu Leu Trp Val Cys Xaa Gly
          225          230          235          240
Arg Ser Thr Ser Pro Phe
          245          246

```

<210> 1706

<211> 110

<212> PRT

<213> Homo sapiens

<400> 1706

```

Arg Gly Gly Arg Asp Trp Gly Glu His Asn Gln Arg Leu Glu Glu His
 1           5           10           15
Gln Ala Arg Ala Trp Gln Gly Ala Met Asp Ala Gly Ala Ala Ser Arg
          20           25           30
Glu His Ala Arg Trp Gln Gly Thr Gly Leu Ala Pro Gly Thr Arg Val
          35           40           45
Ala Val Ala Pro Thr Cys Val Gln Gly Leu Pro Gln Glu Arg Ser Val
          50           55           60
Cys Arg Pro Phe Phe Ser Ser Arg Trp Arg Glu Gly Pro Val Trp Ala
          65           70           75           80
Leu Gly Ala Gly Ala His Gly Lys Pro Arg Trp Ser Gly Gly Val Arg
          85           90           95
Cys Val Val Arg Gly Gly Arg Trp Phe Thr Pro Ala Pro His
          100           105           110

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<210> 1707

<211> 340

<212> PRT

<213> Homo sapiens

<400> 1707

```

Met Leu Glu Ala Pro Gly Pro Ser Asp Gly Cys Glu Leu Ser Asn Pro
 1           5           10           15
Ser Ala Ser Arg Val Ser Cys Ala Gly Gln Met Leu Glu Val Gln Pro
          20           25           30
Gly Leu Tyr Phe Gly Gly Ala Ala Ala Val Ala Glu Pro Asp His Leu
          35           40           45
Arg Glu Ala Gly Ile Thr Ala Val Leu Thr Val Asp Ser Glu Glu Pro
          50           55           60
Ser Phe Lys Ala Gly Pro Gly Val Glu Asp Leu Trp Arg Leu Phe Val
          65           70           75           80
Pro Ala Leu Asp Lys Pro Glu Thr Asp Leu Leu Ser His Leu Asp Arg
          85           90           95
Cys Val Ala Phe Ile Gly Gln Ala Arg Ala Glu Gly Arg Ala Val Leu
          100           105           110
Val His Cys His Ala Gly Val Ser Arg Ser Val Ala Ile Ile Thr Ala
          115           120           125
Phe Leu Met Lys Thr Asp Gln Leu Pro Phe Glu Lys Ala Tyr Glu Lys
          130           135           140
Leu Gln Ile Leu Lys Pro Glu Ala Lys Met Asn Glu Gly Phe Glu Trp
          145           150           155           160
Gln Leu Lys Leu Tyr Gln Ala Met Gly Tyr Glu Val Asp Thr Ser Ser
          165           170           175
Ala Ile Tyr Lys Gln Tyr Arg Leu Gln Lys Val Thr Glu Lys Tyr Pro
          180           185           190
Glu Leu Gln Asn Leu Pro Gln Glu Leu Phe Ala Val Asp Pro Thr Thr
          195           200           205
Val Ser Gln Gly Leu Lys Asp Glu Val Leu Tyr Lys Cys Arg Lys Cys
          210           215           220
Arg Arg Ser Leu Phe Arg Ser Ser Ser Ile Leu Asp His Arg Glu Gly
          225           230           235           240
Ser Gly Pro Ile Ala Phe Ala His Lys Arg Met Thr Pro Ser Ser Met
          245           250           255
Leu Thr Thr Gly Arg Gln Ala Gln Cys Thr Ser Tyr Phe Ile Glu Pro
          260           265           270
Val Gln Trp Met Glu Ser Ala Leu Leu Gly Val Met Asp Gly Gln Leu
          275           280           285
Leu Cys Pro Lys Cys Ser Ala Lys Leu Gly Ser Phe Asn Trp Tyr Gly
          290           295           300

```

Glu Gln Cys Ser Cys Gly Arg Trp Ile Thr Pro Ala Phe Gln Ile His
 305 310 315 320
 Lys Asn Arg Val Asp Glu Met Lys Ile Leu Pro Val Leu Gly Ser Gln
 325 330 335
 Thr Gly Lys Ile
 340

<210> 1708
 <211> 229
 <212> PRT
 <213> Homo sapiens
 <221> misc_feature
 <222> (1)...(225)
 <223> Xaa = any amino acid or nothing

<400> 1708
 Glu Val Glu Thr Leu Gly Pro Arg Thr Pro Gly Pro Glu Ala Gln Ser
 1 5 10 15
 Pro Thr Pro Gly Ser Cys Pro Gly Trp Gln Glu Pro Ser Pro Gly Pro
 20 25 30
 Thr Pro Pro Pro Xaa Leu Ser Gly Pro Gly Pro Gln Gly Ala Pro Val
 35 40 45
 Leu Gly Lys Leu Leu Pro Asp Pro Glu Glu Thr Pro Ala Gly Lys Thr
 50 55 60
 Pro Leu Gly Lys His Phe Trp Trp Gly Leu Pro Val Thr Ser Ala Asn
 65 70 75 80
 Phe Ser Pro Gly Ala Ala Ala Xaa Phe Gly Gly Ala Leu Ser Pro Pro
 85 90 95
 Gly Gly Asp Leu Gly His Met Leu Leu Gln Gly Pro Pro Ser Pro Phe
 100 105 110
 Arg Leu Gln Gln Xaa Gln Thr Pro Pro Gly Ser His Ser Pro Pro
 115 120 125
 Thr Ala Asn Arg Glu Ile Asn Pro Gly Pro Ala Ala Ala Asp Thr
 130 135 140
 Arg Ser Cys Trp Gly His Lys Arg Ser Trp Arg Gly Trp Arg Gly Leu
 145 150 155 160
 Ala Pro Trp Arg Leu Gly Phe Gly Ser Pro Gly Ile Pro Xaa Pro Ala
 165 170 175
 Pro Ala Gly Ile Pro Gly Arg Pro Thr Trp Glu Gly Gly Lys Gly Ala
 180 185 190
 Gly Gly Lys Pro Ser Glu Thr Leu Thr Arg Ser Pro Pro Val Trp Arg
 195 200 205
 Gly Lys Arg Gly Ser Ala Asn Gly Phe Leu Ser Trp Val Gln Ile Leu
 210 215 220
 Gln
 225

<210> 1709
 <211> 88
 <212> PRT
 <213> Homo sapiens
 <221> misc_feature
 <222> (1)...(87)
 <223> Xaa = any amino acid or nothing

<400> 1709

```

His Glu His Leu Leu Leu Leu Leu Cys Val Phe Leu Val Lys Ser
 1          5          10          15
Gln Gly Val Asn Asp Asn Glu Glu Gly Phe Phe Ser Ala Arg Gly His
          20          25          30
Arg Pro Leu Asp Lys Lys Arg Glu Asp Ala Pro Asn Leu Arg Pro Ala
          35          40          45
Leu Ala Asp Ile Thr Val Cys Asp Tyr Arg Ala Gln Ile Ala Xaa Ala
          50          55          60
Ala Ser Thr Pro Lys Arg Ala Ala Ser Ile Ala His Asn Ala Val Ser
          65          70          75          80
Cys Arg Xaa Ala Gln Ile Ala
          85          87

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<210> 1710
<211> 96
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(95)
<223> Xaa = any amino acid or nothing

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<400> 1710
Arg Glu Pro Pro Arg Pro Ala Leu Leu Phe Phe Xaa Asp Arg Val Ser
 1          5          10          15
Leu Cys Cys Pro Gly Trp Asn Ala Val Val Gln Ser Gln Leu Thr Ala
          20          25          30
Ala Pro Thr Ser Gln Val Gln Ser Asp Ser Pro Thr Phe Pro Ser Ser
          35          40          45
Trp Asp Tyr Arg His Val Pro Glu Tyr Pro Ala Asn Phe Leu Xaa Arg
          50          55          60
Gln Gly Phe Pro Met Leu Pro Arg Leu Val Ser Asn Ser Trp Ala Gln
          65          70          75          80
Thr Val His Pro Pro Arg Pro Pro Lys Val Leu Asp Leu Gln Ala
          85          90          95

```

```

<210> 1711
<211> 476
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(467)
<223> Xaa = any amino acid or nothing

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<400> 1711
Pro Val Pro Ala Pro Arg Val Ser Pro Ser Ala Arg Gly Ala Pro Gly
 1          5          10          15
Arg Pro Arg Leu Pro Gly Val Arg Gly Pro Arg His Ser Trp Ala Ala
          20          25          30
Asp Xaa Arg Gly Ser Arg Met Pro Pro Arg Ala Pro Ala Pro Ser Pro
          35          40          45
Thr Gly Pro Ala Pro Gly Gly Lys Lys Val Arg Gly Arg Val Pro Glu
          50          55          60
Asp Pro Asp Ala Tyr Glu Pro Arg Cys Ser Ala Leu Xaa Val Xaa Pro
          65          70          75          80
Thr His Val Thr Ser Pro Gln Phe Cys Asp Pro Xaa Asn Gly Gln Ile
          85          90          95

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Arg Ser Tyr Phe Thr Val Leu Leu Arg Gly Leu Asn Glu Thr Met Leu
      100      105      110
Val Lys Pro Leu Cys Arg Arg Glu Pro Pro Glu Ala Gly Pro Gly Arg
      115      120      125
Gln Ser Thr Pro Ala Val Thr Arg Asp His Arg Gln His Glu Asp Pro
      130      135      140
Arg Gly Ala Gly Arg Gln Trp Asp Ala Asp Pro Arg Pro Ser Ala Pro
      145      150      155      160
Pro Ala Glu Val Ala Thr Gly Ser Arg Pro Gly Arg His Met Trp Met
      165      170      175
Arg Leu Cys Leu Ala Ala Gln Gln Ala Pro Gly Leu Pro His Arg Thr
      180      185      190
Ser Ile Arg Pro Gly Trp Arg Arg Leu Thr Glu Pro Glu Ala Trp Ala
      195      200      205
Arg Arg His Arg Arg Pro Trp Gly Gln Arg Gly Ala Val Arg Pro Pro
      210      215      220
Pro Gln Gly Ala Ala Pro Pro Pro Ser His Gln Gly Arg Arg Thr Asn
      225      230      235      240
Thr Asp Pro Ser Ala Thr Pro Arg Leu Thr Val Met Ser Arg Cys Leu
      245      250      255
Ala Pro Asp Leu Lys Ala Pro Ala Ser Gly Pro Arg Gly Trp Arg Arg
      260      265      270
Gly Met Pro Gln Ser Ser Gly Ala Leu Leu Trp Thr Pro Pro Pro Thr
      275      280      285
Pro Arg Gly Ser His Ser Pro Arg Pro Arg Glu Ala Pro Leu Arg Ala
      290      295      300
Ile His Pro Ala Gly Pro Ser Lys Ser Arg Ala Gly Ala Ser Gly Arg
      305      310      315      320
Leu Pro Glu Val Ile Tyr Gly Trp Val Thr Leu Phe Thr Pro Pro Glu
      325      330      335
Ala Gly Thr Phe Leu Ile Pro Ser Pro Thr Xaa Met Ser Pro Ala Leu
      340      345      350
Val Ile Gln Pro Pro Val Pro Pro Thr Gln Met Gly Leu Arg Ile Ser
      355      360      365
Gly Leu Pro Arg Gln Gly Xaa Pro Ser Gly Ala Pro Trp Xaa Leu Pro
      370      375      380
Gly Leu Ala Gln Leu Ala Phe Gln Cys His Leu Pro His Asp Glu Val
      385      390      395      400
Gly Pro Pro Arg Asn Gln Ser Pro Leu Gly Asn Asp Thr Leu Ser Ser
      405      410      415
Gly Leu Pro Met Gly Pro Arg Arg Gln Val Trp Pro Leu Ala Arg Val
      420      425      430
Gly Gly His Ser Ser Pro Arg Glu Pro Gln Val Leu Lys Lys Pro Leu
      435      440      445
Trp Gly Gln Thr Asp Ile Ala Gly Val Gly Ser Ala Ser Leu Tyr Pro
      450      455      460
Asp Asn Leu
465      467

```

<210> 1712

<211> 333

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(332)

<223> Xaa = any amino acid or nothing

<400> 1712

```

Arg Val Gly Met Val Leu Gly Thr Arg Glu Val Gly Asp Ser Thr Pro
  1           5           10           15

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Pro Pro Ser Pro Pro Leu Tyr Pro Phe Thr Gly Asn Glu Phe Val Gln
      20      25      30
His Asn Thr Trp Gln Leu Ser Arg Val Tyr Pro Ser Asp Leu Arg Thr
      35      40      45
Asp Ser Ser Asn Tyr Asn Pro Gln Glu Leu Trp Asn Ala Gly Cys Gln
      50      55      60
Met Val Xaa Gly Gly Ser Arg Asp Trp Glu Glu Gly Val Glu Glu Gln
      65      70      75      80
Gln Val Gly Asn Lys Phe Ser Ser Asp Gly Arg Val Gly Glu Cys Ser
      85      90      95
Arg Lys Leu Leu Gly Xaa Glu Met Leu Ser Val Asp Ile Thr Ser Arg
      100      105      110
Tyr Arg Ala Pro Ser Thr Tyr Leu Leu Asn Ser Leu Lys Glu Gly Leu
      115      120      125
Glu Gly Leu His Gly Glu Ser Cys Ser Ser Phe Leu Leu Gly Pro Ser
      130      135      140
Val Ala Met Asn Met Gln Thr Ala Gly Leu Glu Met Asp Ile Cys Asp
      145      150      155      160
Gly His Phe Arg Gln Asn Gly Gly Cys Gly Tyr Val Leu Lys Pro Asp
      165      170      175
Phe Leu Arg Asp Ile Gln Ser Ser Phe His Pro Glu Lys Pro Ile Ser
      180      185      190
Pro Phe Lys Ala Gln Thr Leu Leu Asn Gln Val Ile Ser Val Gln Gln
      195      200      205
Leu Pro Lys Val Asp Lys Thr Lys Glu Gly Ser Ile Val Asp Pro Leu
      210      215      220
Val Lys Val Gln Ile Phe Gly Val Arg Leu Asp Thr Ala Arg Gln Glu
      225      230      235      240
Thr Asn Tyr Val Glu Asn Asn Gly Phe Asn Pro Tyr Trp Gly Gln Thr
      245      250      255
Leu Cys Phe Arg Val Leu Gly Pro Asp Phe Pro Met Leu Arg Phe Gly
      260      265      270
Lys Met Asp Tyr Asp Trp Lys Ser Arg Asn Asp Leu Leu Gly Lys Thr
      275      280      285
Pro Cys Pro Gly Thr Cys Met Gln Gln Gly Tyr Arg His Ile His Leu
      290      295      300
Leu Ser Lys Asp Gly Ile Ser Leu Arg Pro Ala Ser Ile Phe Val Tyr
      305      310      315      320
Ile Cys Ile Gln Glu Gly Leu Glu Gly Asp Glu Ser
      325      330      332

```

<210> 1713

<211> 63

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(63)

<223> Xaa = any amino acid or nothing

<400> 1713

```

Met Phe Ala Gly Ser Tyr Gly Lys Ser Met Phe Ser Phe Ser Lys Lys
  1      5      10      15
Val Leu Asn Cys Leu Pro Lys Trp Arg Tyr His Phe Val Ile Ala Pro
      20      25      30
Ala Met Asn Glu Ser Pro Leu Ala Pro His Leu His Gln His Leu Val
      35      40      45
Phe Ser Val Phe Gln Val Leu Thr Ile Leu Ile Gly Val Xaa Xaa
      50      55      60      63

```

<210> 1714
 <211> 120
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(120)
 <223> Xaa = any amino acid or nothing

<400> 1714
 Ser Ala Phe Lys Thr Leu Gln Leu Pro Ala Phe Ser Leu Tyr Phe Asp
 1 5 10 15
 Leu Gly Ser Leu Lys Leu Leu Ile Leu Arg Ile His Thr Ser Ile Val
 20 25 30
 Lys Asn His Lys Val Glu Ser Pro Arg Thr Met Ser Pro Gly Xaa Asp
 35 40 45
 Pro Gln Ser Phe Leu Gln Ile Pro Gln Pro Arg Pro Pro Gln Leu Arg
 50 55 60
 Val Gly Leu Thr Ser Gly Leu Ile Gln His Phe His Ser Pro Ser Ser
 65 70 75 80
 Cys Gln Phe Pro Leu Arg Gly Pro Pro Phe Pro Arg Gln Pro Pro
 85 90 95
 Leu Gly Ile Ser Gly Ala Ser Leu Cys Pro Val Leu Ser Pro Pro Arg
 100 105 110
 Xaa Pro Leu Gln Pro Ser Ser Leu
 115 120

<210> 1715
 <211> 99
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(96)
 <223> Xaa = any amino acid or nothing

<400> 1715
 Leu Leu Pro Tyr Pro Ser Leu Phe Val Phe Leu Arg Gln Cys His Phe
 1 5 10 15
 Val Thr Arg Leu Glu Cys Asn Gly Val Val Ser Ala His Cys Asn Leu
 20 25 30
 His Leu Pro Gly Ser Ser Asp Ser Pro Ala Ser Ala Ser Xaa Val Ala
 35 40 45
 Gly Thr Thr Gly Val Cys His His Thr Arg Leu Ile Phe Val Phe Leu
 50 55 60
 Val Xaa Thr Gly Phe His Tyr Val Ala Gln Ala Gly Leu Glu Leu Leu
 65 70 75 80
 Thr Ala Xaa Ser Pro Pro Gln Leu Pro Lys Val Val Gly Leu Gln Ala
 85 90 95 96

<210> 1716
 <211> 83
 <212> PRT
 <213> Homo sapiens

```

<400> 1716
Val Gly Glu Lys Leu His Asp Ile Arg Phe Gly Asn Asp Phe Asp Met
 1           5           10           15
Thr Pro Lys Ala Gln Ala Thr Lys Glu Lys Ile Asp Lys Leu Asn Phe
      20           25           30
Ile Lys Ile Lys Lys Leu Cys Ile Glu Gly Tyr Tyr Asn Arg Glu Pro
      35           40           45
Gln Asn Gly Arg Lys Ile Phe Ala Asn Tyr Val Ser Asp Lys Gly Leu
      50           55           60
Met Ala Thr Ile Tyr Glu Glu Leu Leu Lys Leu Ser Asn Lys Leu Ile
      65           70           75           80
Gln
      81

```

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<210> 1717
<211> 791
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(789)
<223> Xaa = any amino acid or nothing

```

```

<400> 1717
Gln Lys Leu Lys Gln Asn Gln Pro Lys Arg Ala His Val Glu Asp Gly
 1           5           10           15
Gly Ser Arg Ser Lys Gln Gly Asn Glu Gln Ser Lys Lys Thr Pro Ile
      20           25           30
Glu Lys Ser Asp Phe Ala Ala Ala Thr His Pro Arg Ala Phe Tyr Leu
      35           40           45
Ser Lys Pro Asp Glu Thr Pro Asn Ala Trp Met Ser Asp Ser Gly Thr
      50           55           60
Gly Leu Thr Tyr Trp Lys Leu Glu Glu Lys Asp Met His His Ser Leu
      65           70           75           80
Pro Glu Thr Leu Glu Lys Thr Phe Ile Ser Leu Ser Ser Thr Asp Val
      85           90           95
Ser Pro Asn Gln Val Leu Thr Leu Asp Pro Thr Leu His Met Lys Pro
      100           105           110
Lys Gln Gln Ile Ser Gly Ile Gln Pro His Gly Leu Pro Asn Ala Leu
      115           120           125
Asp Asp Arg Ile Ser Phe Ser Pro Asp Ser Val Leu Glu Pro Ser Met
      130           135           140
Ser Ser Pro Ser Asp Ile Asp Ser Phe Ser Gln Ala Ser Asn Val Thr
      145           150           155           160
Ser Gln Leu Pro Gly Phe Pro Lys Tyr Pro Ser His Thr Lys Ala Ser
      165           170           175
Pro Val Asp Ser Trp Lys Asn Gln Thr Phe Gln Asn Glu Ser Arg Thr
      180           185           190
Ser Ser Thr Phe Pro Ser Val Tyr Thr Ile Thr Ser Asn Asp Ile Ser
      195           200           205
Val Asn Thr Val Asp Glu Glu Asn Thr Val Met Val Ala Ser Ala Ser
      210           215           220
Val Ser Gln Ser Gln Leu Pro Gly Thr Ala Asn Ser Val Pro Glu Cys
      225           230           235           240
Ile Ser Leu Thr Ser Leu Glu Asp Pro Val Ile Leu Ser Lys Ile Arg
      245           250           255
Gln Asn Leu Lys Glu Lys His Ala Arg His Ile Ala Asp Leu Arg Ala
      260           265           270
Tyr Tyr Glu Ser Glu Ile Asn Ser Leu Lys Gln Lys Leu Glu Ala Lys
      275           280           285

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Glu Ile Ser Gly Val Glu Asp Trp Lys Ile Thr Asn Gln Ile Leu Val
 290 295 300
 Asp Arg Cys Gly Gln Leu Asp Ser Ala Leu His Glu Ala Thr Ser Arg
 305 310 315 320
 Val Arg Thr Leu Glu Asn Lys Asn Asn Leu Glu Ile Glu Val Asn
 325 330 335
 Asp Leu Arg Glu Arg Phe Ser Ala Ala Ser Ser Ala Ser Lys Ile Leu
 340 345 350
 Gln Glu Arg Ile Glu Glu Met Arg Thr Ser Ser Lys Glu Lys Asp Asn
 355 360 365
 Thr Ile Ile Arg Leu Lys Ser Arg Leu Gln Asp Leu Glu Glu Ala Phe
 370 375 380
 Glu Asn Ala Tyr Lys Leu Ser Asp Asp Lys Glu Ala Gln Leu Lys Gln
 385 390 395 400
 Glu Asn Lys Met Phe Gln Asp Leu Leu Gly Glu Tyr Glu Ser Leu Gly
 405 410 415
 Lys Glu His Arg Arg Val Lys Asp Ala Leu Asn Thr Thr Glu Asn Lys
 420 425 430
 Leu Leu Asp Ala Tyr Thr Gln Ile Ser Asp Leu Lys Arg Met Ile Ser
 435 440 445
 Lys Leu Glu Ala Gln Val Lys Gln Val Glu His Glu Asn Met Leu Ser
 450 455 460
 Leu Arg His Asn Ser Arg Ile His Val Arg Pro Ser Arg Ala Asn Thr
 465 470 475 480
 Leu Ala Thr Ser Asp Val Ser Arg Arg Lys Trp Leu Ile Pro Gly Ala
 485 490 495
 Glu Tyr Ser Ile Phe Thr Gly Gln Pro Leu Asp Thr Gln Asp Ser Asn
 500 505 510
 Val Asp Asn Gln Leu Glu Glu Thr Cys Ser Leu Gly His Arg Ser Pro
 515 520 525
 Leu Glu Lys Asp Ser Ser Pro Gly Ser Ser Ser Thr Ser Leu Leu Ile
 530 535 540
 Lys Lys Gln Arg Glu Thr Ser Asp Thr Pro Ile Met Arg Ala Leu Lys
 545 550 555 560
 Glu Leu Asp Glu Gly Lys Ile Phe Lys Asn Trp Gly Thr Gln Thr Glu
 565 570 575
 Lys Glu Asp Thr Ser Asn Ser Leu Leu Xaa Ile Asn Pro Arg Gln Thr
 580 585 590
 Glu Thr Ser Val Asn Ala Ser Arg Ser Pro Glu Lys Cys Ala Gln Gln
 595 600 605
 Arg Gln Lys Arg Leu Asn Ser Ala Ser Gln Arg Ser Ser Leu Pro
 610 615 620
 Pro Ser Asn Arg Lys Ser Ser Thr Pro Thr Lys Arg Glu Ile Met Leu
 625 630 635 640
 Thr Pro Val Thr Val Ala Tyr Ser Pro Lys Arg Ser Pro Lys Glu Asn
 645 650 655
 Leu Ser Pro Gly Phe Ser His Leu Leu Ser Lys Asn Glu Ser Ser Pro
 660 665 670
 Ile Arg Glu Lys Thr Tyr Ser Glu Lys Ala Thr Asp Asn His Val Asn
 675 680 685
 His Ser Ser Cys Pro Glu Pro Val Pro Asn Gly Val Lys Lys Val Ser
 690 695 700
 Val Arg Thr Ala Trp Glu Lys Asn Lys Ser Val Ser Tyr Glu Gln Cys
 705 710 715 720
 Lys Pro Val Ser Val Thr Pro Gln Gly Asn Asp Phe Glu Tyr Thr Ala
 725 730 735
 Lys Ile Arg Thr Leu Ala Glu Thr Glu Arg Phe Phe Asp Glu Leu Thr
 740 745 750
 Lys Glu Lys Asp Gln Ile Glu Ala Ala Leu Ser Arg Met Pro Ser Pro
 755 760 765
 Gly Gly Arg Ile Thr Leu Gln Thr Arg Leu Asn Gln Val Lys Cys Leu
 770 775 780
 Ser Leu Asn Leu Leu
 785 789

<210> 1718
 <211> 782
 <212> PRT
 <213> Homo sapiens

<400> 1718
 Glu Phe Lys Ser Gly Gly Cys Gly Ala Gly Leu Val Ala Ala Gly Ala
 1 5 10 15
 Val Leu Val Leu Tyr Pro Ala Ser Arg Ala Gly Glu Arg Thr Arg Val
 20 25 30
 Pro Gly Ser Pro Ala Pro Ser Ser Leu Pro Leu His Ser Pro Gly Ala
 35 40 45
 Cys Gly Thr Glu Val Asp Met Asp Pro Gln Arg Ser Pro Leu Leu Glu
 50 55 60
 Val Lys Gly Asn Ile Glu Leu Lys Arg Pro Leu Ile Lys Ala Pro Ser
 65 70 75 80
 Gln Leu Pro Leu Ser Gly Ser Arg Leu Lys Arg Arg Pro Asp Gln Met
 85 90 95
 Glu Asp Gly Leu Glu Pro Glu Lys Lys Arg Thr Arg Gly Leu Gly Ala
 100 105 110
 Thr Thr Lys Ile Thr Thr Ser His Pro Arg Val Pro Ser Leu Thr Thr
 115 120 125
 Val Pro Gln Thr Gln Gly Gln Thr Thr Ala Gln Lys Val Ser Lys Lys
 130 135 140
 Thr Gly Pro Arg Cys Ser Thr Ala Ile Ala Thr Gly Leu Lys Asn Gln
 145 150 155 160
 Lys Pro Val Pro Ala Val Pro Val Gln Lys Ser Gly Thr Ser Gly Val
 165 170 175
 Pro Pro Met Ala Gly Gly Lys Lys Pro Ser Lys Arg Pro Ala Trp Asp
 180 185 190
 Leu Lys Gly Gln Leu Cys Asp Leu Asn Ala Glu Leu Lys Arg Cys Arg
 195 200 205
 Glu Arg Thr Gln Thr Leu Asp Gln Glu Asn Gln Gln Leu Gln Asp Gln
 210 215 220
 Leu Arg Asp Ala Gln Gln Gln Val Lys Ala Leu Gly Thr Glu Arg Thr
 225 230 235 240
 Thr Leu Glu Gly His Leu Ala Lys Val Gln Ala Gln Ala Glu Gln Gly
 245 250 255
 Gln Gln Glu Leu Lys Asn Leu Arg Ala Cys Val Leu Glu Leu Glu Glu
 260 265 270
 Arg Leu Ser Thr Gln Glu Gly Leu Val Gln Glu Leu Gln Lys Lys Gln
 275 280 285
 Val Glu Leu Gln Glu Glu Arg Arg Gly Leu Met Ser Gln Leu Glu Glu
 290 295 300
 Lys Glu Arg Arg Leu Gln Thr Ser Glu Ala Ala Leu Ser Ser Ser Gln
 305 310 315 320
 Ala Glu Val Ala Ser Leu Arg Gln Glu Thr Val Ala Gln Ala Ala Leu
 325 330 335
 Leu Thr Glu Arg Glu Glu Arg Leu His Gly Leu Glu Met Glu Arg Arg
 340 345 350
 Arg Leu His Asn Gln Leu Gln Glu Leu Lys Gly Asn Ile Arg Val Phe
 355 360 365
 Cys Arg Val Arg Pro Val Leu Pro Gly Glu Pro Thr Pro Pro Pro Gly
 370 375 380
 Leu Leu Leu Phe Pro Ser Gly Pro Gly Gly Pro Ser Asp Pro Pro Thr
 385 390 395 400
 Arg Leu Ser Leu Ser Arg Ser Asp Glu Arg Arg Gly Thr Leu Ser Gly
 405 410 415
 Ala Pro Ala Pro Thr Arg His Asp Phe Ser Phe Asp Arg Val Phe
 420 425 430

```

Pro Pro Gly Ser Gly Gln Asp Glu Val Phe Glu Glu Ile Ala Met Leu
    435          440          445
Val Gln Ser Ala Leu Asp Gly Tyr Pro Val Cys Ile Phe Ala Tyr Gly
    450          455          460
Gln Thr Gly Ser Gly Lys Thr Phe Thr Met Glu Gly Gly Pro Gly Gly
    465          470          475          480
Asp Pro Gln Leu Glu Gly Leu Ile Pro Arg Ala Leu Arg His Leu Phe
    485          490          495
Ser Val Ala Gln Glu Leu Ser Gly Gln Gly Trp Thr Tyr Ser Phe Val
    500          505          510
Ala Ser Tyr Val Glu Ile Tyr Asn Glu Thr Val Arg Asp Leu Leu Ala
    515          520          525
Thr Gly Thr Arg Lys Gly Gln Gly Gly Glu Cys Glu Ile Arg Arg Ala
    530          535          540
Gly Pro Gly Ser Glu Glu Leu Thr Val Thr Asn Ala Arg Tyr Val Pro
    545          550          555          560
Val Ser Cys Glu Lys Glu Val Asp Ala Leu Leu His Leu Ala Arg Gln
    565          570          575
Asn Arg Ala Val Ala Arg Thr Ala Gln Asn Glu Arg Ser Ser Arg Ser
    580          585          590
His Ser Val Phe Gln Leu Gln Ile Ser Gly Glu His Ser Ser Arg Gly
    595          600          605
Leu Gln Cys Gly Ala Pro Leu Ser Leu Val Asp Leu Ala Gly Ser Glu
    610          615          620
Arg Leu Asp Pro Gly Leu Ala Leu Gly Pro Gly Glu Arg Glu Arg Leu
    625          630          635          640
Arg Glu Thr Gln Ala Ile Asn Ser Ser Leu Ser Thr Leu Gly Leu Val
    645          650          655
Ile Met Ala Leu Ser Asn Lys Glu Ser His Val Pro Tyr Arg Asn Ser
    660          665          670
Lys Leu Thr Tyr Leu Leu Gln Asn Ser Leu Gly Gly Ser Ala Lys Met
    675          680          685
Leu Met Phe Val Asn Ile Ser Pro Leu Glu Glu Asn Val Ser Glu Ser
    690          695          700
Leu Asn Ser Leu Arg Phe Ala Ser Lys Val Glu Pro Ser Val Leu Phe
    705          710          715          720
Gly Thr Ala Gln Ser Asn Arg Lys Trp Lys Thr Asp Pro Asp Leu Cys
    725          730          735
Val Cys Val Cys Val Cys Val Cys Val Cys Val Cys Val Cys Val Cys
    740          745          750
Val Pro Met Ser Met Tyr Arg Val Arg Gly Gly Arg Val Ala Gly Gly
    755          760          765
Cys Phe Ile Gly Trp Arg Ala Pro Cys Pro Arg Ala Ile Lys
    770          775          780          782

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<210> 1719

<211> 120

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(119)

<223> Xaa = any amino acid or nothing

<400> 1719

```

Gly Tyr Thr Ser Gln Gly Arg Trp Ile Asp Ile Glu Arg Gly Pro Leu
  1          5          10          15
Thr Ala Asn Thr Glu Ser Leu His Glu Asn Asn Phe Asn Ala Leu Pro
    20          25          30
Gly Tyr Ile Arg Lys Ile Glu Xaa Ile Xaa Ile Tyr Lys Lys Asn Xaa
    35          40          45

```

```

Ile Asn Phe Gly Gly Val Gly Leu Leu Asn Ile Val Lys Ile Ser Ile
  50          55          60
Leu Ser Lys Ile Tyr Arg Phe Asp Ala Ile Pro Val Lys Ile Leu Thr
  65          70          75          80
Arg Phe Phe Ile Asn Leu Asp Lys Leu Ile Leu Lys Phe Val Leu Lys
      85          90          95
Thr Lys Ile Ala Lys Asn Arg Ile Lys Thr Phe Tyr Ile Met Arg Arg
      100          105          110
Lys Lys Leu Gly Asp Ser Ser
      115          119

```

```

<210> 1720
<211> 118
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(117)
<223> Xaa = any amino acid or nothing

```

```

<400> 1720
Gly Ala Ser Ile Ser Pro Ser Ala Val Ile Asp Gly Val Glu Gly Leu
  1          5          10          15
Lys Pro Met Gln Gln Glu Ala Gln Glu Ala Gly Pro Cys Leu Asp
      20          25          30
Xaa His Met Ala Pro Glu Gln Trp Val Ala Pro Arg Arg Leu Leu Phe
      35          40          45
Arg Leu Ile Phe Ser Val Leu His Ala Leu Ile Ile Ala Ala Ala Ala
      50          55          60
Gln Ser Ser Ala Glu Glu Asp Glu Asp Pro Arg Asn Xaa Gly Gln Ser
      65          70          75          80
Ser Glu Asp Gln Ala Pro Asn Gln Asn Gly Leu Ile Val Ile Val His
      85          90          95
Arg Val His Val Pro Leu Gly Ala Ala Ala Thr Val Pro Val His Arg
      100          105          110
Ser His Phe Pro Arg
      115          117

```

```

<210> 1721
<211> 89
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(87)
<223> Xaa = any amino acid or nothing

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```

<400> 1721
Gly Asn Gly Gly Cys Gly Leu Ser Gln Ile Pro Pro Ser His Leu Gly
  1          5          10          15
Ala Phe Ser Arg Gly Ser Leu Leu Ser Arg Gly Asp Pro Arg Gly Pro
      20          25          30
Pro Pro His Pro Val Ile Phe Phe Val Phe Val Val Glu Gln Gly Phe
      35          40          45
Thr Val Leu Ala Arg Met Val Ser Ile Ser Xaa Pro Cys Asp Pro Pro
      50          55          60
Ala Leu Ala Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His Leu Ala
      65          70          75          80

```

Arg Pro Gln Asn Leu Tyr Phe
85 87

<210> 1722
<211> 104
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(102)
<223> Xaa = any amino acid or nothing

<400> 1722
Arg Val Leu His His Asp Asn Val Pro Ala His Ser Ser Pro Gln Lys
1 5 10 15
Arg Glu Ile Ser Gln Glu Phe Gln Leu Glu Ile Arg His Leu Pro Xaa
20 25 30
Ser Pro Asp Leu Ala Pro Ser Gly Cys Phe Leu Phe Leu Asn Leu Lys
35 40 45
Asn Ile Phe Lys Gly Thr His Phe Ser Leu Val Asp Asn Val Lys Lys
50 55 60
Thr Val Ser Thr Trp Leu His Ser Gln Asn Ala Gln Phe Tyr Lys Asp
65 70 75 80
Arg Leu Asn Gly Trp Tyr His Cys Leu Gln Lys Cys Leu Gln His Tyr
85 90 95
Xaa Ala Tyr Val Glu Lys
100 102

<210> 1723
<211> 4565
<212> PRT
<213> Homo sapiens

<400> 1723
Arg Arg Glu Val Ala Gly Pro Glu Gly Lys Gly Leu Leu Leu Ala Ser
1 5 10 15
Ala His Thr Met Leu Thr Pro Pro Leu Leu Leu Leu Pro Leu Leu
20 25 30
Ser Ala Leu Val Ala Ala Ala Ile Asp Ala Pro Lys Thr Cys Ser Pro
35 40 45
Lys Gln Phe Ala Cys Arg Asp Gln Ile Thr Cys Ile Ser Lys Gly Trp
50 55 60
Arg Cys Asp Gly Glu Arg Asp Cys Pro Asp Gly Ser Asp Glu Ala Pro
65 70 75 80
Glu Ile Cys Pro Gln Ser Lys Ala Gln Arg Cys Gln Pro Asn Glu His
85 90 95
Asn Cys Leu Gly Thr Glu Leu Cys Val Pro Met Ser Arg Leu Cys Asn
100 105 110
Gly Val Gln Asp Cys Met Asp Gly Ser Asp Glu Gly Pro His Cys Arg
115 120 125
Glu Leu Gln Gly Asn Cys Ser Arg Leu Gly Cys Gln His His Cys Val
130 135 140
Pro Thr Leu Asp Gly Pro Thr Cys Tyr Cys Asn Ser Ser Phe Gln Leu
145 150 155 160
Gln Ala Asp Gly Lys Thr Cys Lys Asp Phe Asp Glu Cys Ser Val Tyr
165 170 175
Gly Thr Cys Ser Gln Leu Cys Thr Asn Thr Asp Gly Ser Phe Ile Cys
180 185 190

Gly Cys Val Glu Gly Tyr Leu Leu Gln Pro Asp Asn Arg Ser Cys Lys
 195 200 205
 Ala Lys Asn Glu Pro Val Asp Arg Pro Pro Val Leu Leu Ile Ala Asn
 210 215 220
 Ser Gln Asn Ile Leu Ala Thr Tyr Leu Ser Gly Ala Gln Val Ser Thr
 225 230 235 240
 Ile Thr Pro Thr Ser Thr Arg Gln Thr Thr Ala Met Asp Phe Ser Tyr
 245 250 255
 Ala Asn Glu Thr Val Cys Trp Val His Val Gly Asp Ser Ala Ala Gln
 260 265 270
 Thr Gln Leu Lys Cys Ala Arg Met Pro Gly Leu Lys Gly Phe Val Asp
 275 280 285
 Glu His Thr Ile Asn Ile Ser Leu Ser Leu His His Val Glu Gln Met
 290 295 300
 Ala Ile Asp Trp Leu Thr Gly Asn Phe Tyr Phe Val Asp Asp Ile Asp
 305 310 315 320
 Asp Arg Ile Phe Val Cys Asn Arg Asn Gly Asp Thr Cys Val Thr Leu
 325 330 335
 Leu Asp Leu Glu Leu Tyr Asn Pro Lys Gly Ile Ala Leu Asp Pro Ala
 340 345 350
 Met Gly Lys Val Phe Phe Thr Asp Tyr Gly Gln Ile Pro Lys Val Glu
 355 360 365
 Arg Cys Asp Met Asp Gly Gln Asn Arg Thr Lys Leu Val Asp Ser Lys
 370 375 380
 Ile Val Phe Pro His Gly Ile Thr Leu Asp Leu Val Ser Arg Leu Val
 385 390 395 400
 Tyr Trp Ala Asp Ala Tyr Leu Asp Tyr Ile Glu Val Val Asp Tyr Glu
 405 410 415
 Gly Lys Gly Arg Gln Thr Ile Ile Gln Gly Ile Leu Ile Glu His Leu
 420 425 430
 Tyr Gly Leu Thr Val Phe Glu Asn Tyr Leu Tyr Ala Thr Asn Ser Asp
 435 440 445
 Asn Ala Asn Ala Gln Gln Lys Thr Ser Val Ile Arg Val Asn Arg Phe
 450 455 460
 Asn Ser Thr Glu Tyr Gln Val Val Thr Arg Val Asp Lys Gly Gly Ala
 465 470 475 480
 Leu His Ile Tyr His Gln Arg Arg Gln Pro Arg Val Arg Ser His Ala
 485 490 495
 Cys Glu Asn Asp Gln Tyr Gly Lys Pro Gly Gly Cys Ser Asp Ile Cys
 500 505 510
 Leu Leu Ala Asn Ser His Lys Ala Arg Thr Cys Arg Cys Arg Ser Gly
 515 520 525
 Phe Ser Leu Gly Ser Asp Gly Lys Ser Cys Lys Lys Pro Glu His Glu
 530 535 540
 Leu Phe Leu Val Tyr Gly Lys Gly Arg Pro Gly Ile Ile Arg Gly Met
 545 550 555 560
 Asp Met Gly Ala Lys Val Pro Asp Glu His Met Ile Pro Ile Glu Asn
 565 570 575
 Leu Met Asn Pro Arg Ala Leu Asp Phe His Ala Glu Thr Gly Phe Ile
 580 585 590
 Tyr Phe Ala Asp Thr Thr Ser Tyr Leu Ile Gly Arg Gln Lys Ile Asp
 595 600 605
 Gly Thr Glu Arg Glu Thr Ile Leu Lys Asp Gly Ile His Asn Val Glu
 610 615 620
 Gly Val Ala Val Asp Trp Met Gly Asp Asn Leu Tyr Trp Thr Asp Asp
 625 630 635 640
 Gly Pro Lys Lys Thr Ile Ser Val Ala Arg Leu Glu Lys Ala Ala Gln
 645 650 655
 Thr Arg Lys Thr Leu Ile Glu Gly Lys Met Thr His Pro Arg Ala Ile
 660 665 670
 Val Val Asp Pro Leu Asn Gly Trp Met Tyr Trp Thr Asp Trp Glu Glu
 675 680 685
 Asp Pro Lys Asp Ser Arg Arg Gly Arg Leu Glu Arg Ala Trp Met Asp
 690 695 700

Gly Ser His Arg Asp Ile Phe Val Thr Ser Lys Thr Val Leu Trp Pro
 705 710 715 720
 Asn Gly Leu Ser Leu Asp Ile Pro Ala Gly Arg Leu Tyr Trp Val Asp
 725 730 735
 Ala Phe Tyr Asp Arg Ile Glu Thr Ile Leu Leu Asn Gly Thr Asp Arg
 740 745 750
 Lys Ile Val Tyr Glu Gly Pro Glu Leu Asn His Ala Phe Gly Leu Cys
 755 760 765
 His His Gly Asn Tyr Leu Phe Trp Thr Glu Tyr Arg Ser Gly Ser Val
 770 775 780
 Tyr Arg Leu Glu Arg Gly Val Gly Gly Ala Pro Pro Thr Val Thr Leu
 785 790 795 800
 Leu Arg Ser Glu Arg Pro Pro Ile Phe Glu Ile Arg Met Tyr Asp Ala
 805 810 815
 Gln His Gln Gln Val Gly Ser Asn Lys Cys Arg Val Asn Asn Ala Gly
 820 825 830
 Cys Ser Ser Leu Cys Leu Ala Thr Pro Gly Ser Arg Gln Cys Ala Cys
 835 840 845
 Ala Glu Asp Gln Val Leu Asp Ala Asp Gly Val Thr Cys Leu Ala Asn
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 Pro Ser Tyr Val Pro Pro Pro Gln Cys Gln Pro Gly Glu Phe Ala Cys
 865 870 875 880
 Ala Asn Ser Arg Cys Ile Gln Glu Arg Trp Lys Cys Asp Gly Asp Asn
 885 890 895
 Asp Cys Leu Asp Asn Ser Asp Glu Ala Pro Ala Leu Cys His Gln His
 900 905 910
 Thr Cys Pro Ser Asp Arg Phe Lys Cys Glu Asn Asn Arg Cys Ile Pro
 915 920 925
 Asn Arg Trp Leu Cys Asp Gly Asp Asn Asp Cys Gly Asn Ser Glu Asp
 930 935 940
 Glu Ser Asn Ala Thr Cys Ser Ala Arg Thr Cys Pro Pro Asn Gln Phe
 945 950 955 960
 Ser Cys Ala Ser Gly Arg Cys Ile Pro Ile Ser Trp Thr Cys Asp Leu
 965 970 975
 Asp Asp Asp Cys Gly Asp Arg Ser Asp Glu Ser Ala Ser Cys Ala Tyr
 980 985 990
 Pro Thr Cys Phe Pro Leu Thr Gln Phe Thr Cys Asn Asn Gly Arg Cys
 995 1000 1005
 Ile Asn Ile Asn Trp Arg Cys Asp Asn Asp Asn Asp Cys Gly Asp Asn
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 Ser Asp Glu Ala Gly Cys Ser His Ser Cys Ser Ser Thr Gln Phe Lys
 1025 1030 1035 1040
 Cys Asn Ser Gly Arg Cys Ile Pro Glu His Trp Thr Cys Asp Gly Asp
 1045 1050 1055
 Asn Asp Cys Gly Asp Tyr Ser Asp Glu Thr His Ala Asn Cys Thr Asn
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 Gln Ala Thr Arg Pro Pro Gly Gly Cys His Thr Asp Glu Phe Gln Cys
 1075 1080 1085
 Arg Leu Asp Gly Leu Cys Ile Pro Leu Arg Trp Arg Cys Asp Gly Asp
 1090 1095 1100
 Thr Asp Cys Met Asp Ser Ser Asp Glu Lys Ser Cys Glu Gly Val Thr
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 His Val Cys Asp Pro Ser Val Lys Phe Gly Cys Lys Asp Ser Ala Arg
 1125 1130 1135
 Cys Ile Ser Lys Ala Trp Val Cys Asp Gly Asp Asn Asp Cys Glu Asp
 1140 1145 1150
 Asn Ser Asp Glu Glu Asn Cys Glu Ser Leu Ala Cys Arg Pro Pro Ser
 1155 1160 1165
 His Pro Cys Ala Asn Asn Thr Ser Val Cys Leu Pro Pro Asp Lys Leu
 1170 1175 1180
 Cys Asp Gly Asn Asp Asp Cys Gly Asp Gly Ser Asp Glu Gly Glu Leu
 1185 1190 1195 1200
 Cys Asp Gln Cys Ser Leu Asn Asn Gly Gly Cys Ser His Asn Cys Ser
 1205 1210 1215

Val Ala Pro Gly Glu Gly Ile Val Cys Ser Cys Pro Leu Gly Met Glu
 1220 1225 1230
 Leu Gly Pro Asp Asn His Thr Cys Gln Ile Gln Ser Tyr Cys Ala Lys
 1235 1240 1245
 His Leu Lys Cys Ser Gln Lys Cys Asp Gln Asn Lys Phe Ser Val Lys
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 Cys Ser Cys Tyr Glu Gly Trp Val Leu Glu Pro Asp Gly Glu Ser Cys
 1265 1270 1275 1280
 Arg Ser Leu Asp Pro Phe Lys Pro Phe Ile Ile Phe Ser Asn Arg His
 1285 1290 1295
 Glu Ile Arg Arg Ile Asp Leu His Lys Gly Asp Tyr Ser Val Leu Val
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 Pro Gly Leu Arg Asn Thr Ile Ala Leu Asp Phe His Leu Ser Gln Ser
 1315 1320 1325
 Ala Leu Tyr Trp Thr Asp Val Val Glu Asp Lys Ile Tyr Arg Gly Lys
 1330 1335 1340
 Leu Leu Asp Asn Gly Ala Leu Thr Ser Phe Glu Val Val Ile Gln Tyr
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 Gly Leu Ala Thr Pro Glu Gly Leu Ala Val Asp Trp Ile Ala Gly Asn
 1365 1370 1375
 Ile Tyr Trp Val Glu Ser Asn Leu Asp Gln Ile Glu Val Ala Lys Leu
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 Asp Gly Thr Leu Arg Thr Thr Leu Leu Ala Gly Asp Ile Glu His Pro
 1395 1400 1405
 Arg Ala Ile Ala Leu Asp Pro Arg Asp Gly Ile Leu Phe Trp Thr Asp
 1410 1415 1420
 Trp Asp Ala Ser Leu Pro Arg Ile Glu Ala Ala Ser Met Ser Gly Ala
 1425 1430 1435 1440
 Gly Arg Arg Thr Val His Arg Glu Thr Gly Ser Gly Gly Trp Pro Asn
 1445 1450 1455
 Gly Leu Thr Val Asp Tyr Leu Glu Lys Arg Ile Leu Trp Ile Asp Ala
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 Arg Ser Asp Ala Ile Tyr Ser Ala Arg Tyr Asp Gly Ser Gly His Met
 1475 1480 1485
 Glu Val Leu Arg Gly His Glu Phe Leu Ser His Pro Phe Ala Val Thr
 1490 1495 1500
 Leu Tyr Gly Gly Glu Val Tyr Trp Thr Asp Trp Arg Thr Asn Thr Leu
 1505 1510 1515 1520
 Ala Lys Ala Asn Lys Trp Thr Gly His Asn Val Thr Val Val Gln Arg
 1525 1530 1535
 Thr Asn Thr Gln Pro Phe Asp Leu Gln Val Tyr His Pro Ser Arg Gln
 1540 1545 1550
 Pro Met Ala Pro Asn Pro Cys Glu Ala Asn Gly Gly Gln Gly Pro Cys
 1555 1560 1565
 Ser His Leu Cys Leu Ile Asn Tyr Asn Arg Thr Val Ser Cys Ala Cys
 1570 1575 1580
 Pro His Leu Met Lys Leu His Lys Asp Asn Thr Thr Cys Tyr Glu Phe
 1585 1590 1595 1600
 Lys Lys Phe Leu Leu Tyr Ala Arg Gln Met Glu Ile Arg Gly Val Asp
 1605 1610 1615
 Leu Asp Ala Pro Tyr Tyr Asn Tyr Ile Ile Ser Phe Thr Val Pro Asp
 1620 1625 1630
 Ile Asp Asn Val Thr Val Leu Asp Tyr Asp Ala Arg Glu Gln Arg Val
 1635 1640 1645
 Tyr Trp Ser Asp Val Arg Thr Gln Ala Ile Lys Arg Ala Phe Ile Asn
 1650 1655 1660
 Gly Thr Gly Val Glu Thr Val Val Ser Ala Asp Leu Pro Asn Ala His
 1665 1670 1675 1680
 Gly Leu Ala Val Asp Trp Val Ser Arg Asn Leu Phe Trp Thr Ser Tyr
 1685 1690 1695
 Asp Thr Asn Lys Lys Gln Ile Asn Val Ala Arg Leu Asp Gly Ser Phe
 1700 1705 1710
 Lys Asn Ala Val Val Gln Gly Leu Glu Gln Pro His Gly Leu Val Val
 1715 1720 1725

His Pro Leu Arg Gly Lys Leu Tyr Trp Thr Asp Gly Asp Asn Ile Ser
 1730 1735 1740
 Met Ala Asn Met Asp Gly Ser Asn Arg Thr Leu Leu Phe Ser Gly Gln
 1745 1750 1755 1760
 Lys Gly Pro Val Gly Leu Ala Ile Asp Phe Pro Glu Ser Lys Leu Tyr
 1765 1770 1775
 Trp Ile Ser Ser Gly Asn His Thr Ile Asn Arg Cys Asn Leu Asp Gly
 1780 1785 1790
 Ser Gly Leu Glu Val Ile Asp Ala Met Arg Ser Gln Leu Gly Lys Ala
 1795 1800 1805
 Thr Ala Leu Ala Ile Met Gly Asp Lys Leu Trp Trp Ala Asp Gln Val
 1810 1815 1820
 Ser Glu Lys Met Gly Thr Cys Ser Lys Ala Asp Gly Ser Gly Ser Val
 1825 1830 1835 1840
 Val Leu Arg Asn Ser Thr Thr Leu Val Met His Met Lys Val Tyr Asp
 1845 1850 1855
 Glu Ser Ile Gln Leu Asp His Lys Gly Thr Asn Pro Cys Ser Val Asn
 1860 1865 1870
 Asn Gly Asp Cys Ser Gln Leu Cys Leu Pro Thr Ser Glu Thr Thr Arg
 1875 1880 1885
 Ser Cys Met Cys Thr Ala Gly Tyr Ser Leu Arg Ser Gly Gln Gln Ala
 1890 1895 1900
 Cys Glu Gly Val Gly Ser Phe Leu Leu Tyr Ser Val His Glu Gly Ile
 1905 1910 1915 1920
 Arg Gly Ile Pro Leu Asp Pro Asn Asp Lys Ser Asp Ala Leu Val Pro
 1925 1930 1935
 Val Ser Gly Thr Ser Leu Ala Val Gly Ile Asp Phe His Ala Glu Asn
 1940 1945 1950
 Asp Thr Ile Tyr Trp Val Asp Met Gly Leu Ser Thr Ile Ser Arg Ala
 1955 1960 1965
 Lys Arg Asp Gln Thr Trp Arg Glu Asp Val Val Thr Asn Gly Ile Gly
 1970 1975 1980
 Arg Val Glu Gly Ile Ala Val Asp Trp Ile Ala Gly Asn Ile Tyr Trp
 1985 1990 1995 2000
 Thr Asp Gln Gly Phe Asp Val Ile Glu Val Ala Arg Leu Asn Gly Ser
 2005 2010 2015
 Phe Arg Tyr Val Val Ile Ser Gln Gly Leu Asp Lys Pro Arg Ala Ile
 2020 2025 2030
 Thr Val His Pro Glu Lys Gly Tyr Leu Phe Trp Thr Glu Trp Gly Gln
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 2050 2055 2060
 Leu Val Asn Val Ser Ile Ser Trp Pro Asn Gly Ile Ser Val Asp Tyr
 2065 2070 2075 2080
 Gln Asp Gly Lys Leu Tyr Trp Cys Asp Ala Arg Thr Asp Lys Ile Glu
 2085 2090 2095
 Arg Ile Asp Leu Glu Thr Gly Glu Asn Arg Glu Val Val Leu Ser Ser
 2100 2105 2110
 Asn Asn Met Asp Met Phe Ser Val Ser Val Phe Glu Asp Phe Ile Tyr
 2115 2120 2125
 Trp Ser Asp Arg Thr His Ala Asn Gly Ser Ile Lys Arg Gly Ser Lys
 2130 2135 2140
 Asp Asn Ala Thr Asp Ser Val Pro Leu Arg Thr Gly Ile Gly Val Gln
 2145 2150 2155 2160
 Leu Lys Asp Ile Lys Val Phe Asn Arg Asp Arg Gln Lys Gly Thr Asn
 2165 2170 2175
 Val Cys Ala Val Ala Asn Gly Gly Cys Gln Gln Leu Cys Leu Tyr Arg
 2180 2185 2190
 Gly Arg Gly Gln Arg Ala Cys Ala Cys Ala His Gly Met Leu Ala Glu
 2195 2200 2205
 Asp Gly Ala Ser Cys Arg Glu Tyr Ala Gly Tyr Leu Leu Tyr Ser Glu
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 Arg Thr Ile Leu Lys Ser Ile His Leu Ser Asp Glu Arg Asn Leu Asn
 2225 2230 2235 2240

Ala Pro Val Gln Pro Phe Glu Asp Pro Glu His Met Lys Asn Val Ile
 2245 2250 2255
 Ala Leu Ala Phe Asp Tyr Arg Ala Gly Thr Ser Pro Gly Thr Pro Asn
 2260 2265 2270
 Arg Ile Phe Phe Ser Asp Ile His Phe Gly Asn Ile Gln Gln Ile Asn
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 2290 2295 2300
 Glu Gly Leu Ala Tyr His Arg Gly Trp Asp Thr Leu Tyr Trp Thr Ser
 2305 2310 2315 2320
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 2325 2330 2335
 Gly Ala Phe Glu Arg Glu Thr Val Ile Thr Met Ser Gly Asp Asp His
 2340 2345 2350
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 2355 2360 2365
 Asn Trp Asn Glu Gln His Pro Ser Ile Met Arg Ala Ala Leu Ser Gly
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 2385 2390 2395 2400
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 2420 2425 2430
 Ile Leu Lys Ser Glu Pro Val His Pro Phe Gly Leu Ala Val Tyr Gly
 2435 2440 2445
 Glu His Ile Phe Trp Thr Asp Trp Val Arg Arg Ala Val Gln Arg Ala
 2450 2455 2460
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 Gln Gln Pro Met Gly Ile Ile Ala Val Ala Asn Asp Thr Asn Ser Cys
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 Glu Leu Ser Pro Cys Arg Ile Asn Asn Gly Gly Cys Gln Asp Leu Cys
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 Leu Leu Thr His Gln Gly His Val Asn Cys Ser Cys Arg Gly Gly Arg
 2515 2520 2525
 Ile Leu Gln Asp Asp Leu Thr Cys Arg Ala Val Asn Ser Ser Cys Arg
 2530 2535 2540
 Ala Gln Asp Glu Phe Glu Cys Ala Asn Gly Glu Cys Ile Asn Phe Ser
 2545 2550 2555 2560
 Leu Thr Cys Asp Gly Val Pro His Cys Lys Asp Lys Ser Asp Glu Lys
 2565 2570 2575
 Pro Ser Tyr Cys Asn Ser Arg Arg Cys Lys Lys Thr Phe Arg Gln Cys
 2580 2585 2590
 Ser Asn Gly Arg Cys Val Ser Asn Met Leu Trp Cys Asn Gly Ala Asp
 2595 2600 2605
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 Gly Val Gly Glu Phe Arg Cys Arg Asp Gly Thr Cys Ile Gly Asn Ser
 2625 2630 2635 2640
 Ser Arg Cys Asn Gln Phe Val Asp Cys Glu Asp Ala Ser Asp Glu Met
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 Gly Val Leu Phe Gln Pro Cys Glu Arg Thr Ser Leu Cys Tyr Ala Pro
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 Ser Trp Val Cys Asp Gly Ala Asn Asp Cys Gly Asp Tyr Ser Asp Glu
 2690 2695 2700
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 Ala Cys Pro Ser Gly Arg Cys Ile Pro Met Ser Trp Thr Cys Asp Lys
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 Glu Asp Asp Cys Glu His Gly Glu Asp Glu Thr His Cys Asn Lys Phe
 2740 2745 2750

Cys Ser Glu Ala Gln Phe Glu Cys Gln Asn His Arg Cys Ile Ser Lys
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 Gln Trp Leu Cys Asp Gly Ser Asp Asp Cys Gly Asp Gly Ser Asp Glu
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 2785 2790 2795 2800
 Pro Gly Thr His Val Cys Val Pro Glu Arg Trp Leu Cys Asp Gly Asp
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 Lys Asp Cys Ala Asp Gly Ala Asp Glu Ser Ile Ala Ala Gly Cys Leu
 2820 2825 2830
 Tyr Asn Ser Thr Cys Asp Asp Arg Glu Phe Met Cys Gln Asn Arg Gln
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 Cys Ile Pro Lys His Phe Val Cys Asp His Asp Arg Asp Cys Ala Asp
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 2915 2920 2925
 Phe Leu Cys Ser Ser Gly Arg Cys Val Ala Glu Ala Leu Leu Cys Asn
 2930 2935 2940
 Gly Gln Asp Asp Cys Gly Asp Ser Ser Asp Glu Arg Gly Cys His Ile
 2945 2950 2955 2960
 Asn Glu Cys Leu Ser Arg Lys Leu Ser Gly Cys Ser Gln Asp Cys Glu
 2965 2970 2975
 Asp Leu Lys Ile Gly Phe Lys Cys Arg Cys Arg Pro Gly Phe Arg Leu
 2980 2985 2990
 Lys Asp Asp Gly Arg Thr Cys Ala Asp Val Asp Glu Cys Ser Thr Thr
 2995 3000 3005
 Phe Pro Cys Ser Gln Arg Cys Ile Asn Thr His Gly Ser Tyr Lys Cys
 3010 3015 3020
 Leu Cys Val Glu Gly Tyr Ala Pro Arg Gly Gly Asp Pro His Ser Cys
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 Lys Ala Val Thr Asp Glu Glu Pro Phe Leu Ile Phe Ala Asn Arg Tyr
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 Tyr Leu Arg Lys Leu Asn Leu Asp Gly Ser Asn Tyr Thr Leu Leu Lys
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 Gln Gly Leu Asn Asn Ala Val Ala Leu Asp Phe Asp Tyr Arg Glu Gln
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 Met His Leu Asn Gly Ser Asn Val Gln Val Leu His Arg Thr Gly Leu
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 Ser Asn Pro Asp Gly Leu Ala Val Asp Trp Val Gly Gly Asn Leu Tyr
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 Trp Cys Asp Lys Gly Arg Asp Thr Ile Glu Val Ser Lys Leu Asn Gly
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 Ala Tyr Arg Thr Val Leu Val Ser Ser Gly Leu Arg Glu Pro Arg Ala
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 Leu Val Val Asp Val Gln Asn Gly Tyr Leu Tyr Trp Thr Asp Trp Gly
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 Val Ile Val Asp Thr Lys Ile Thr Trp Pro Asn Gly Leu Thr Leu Asp
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 Tyr Val Thr Glu Arg Ile Tyr Trp Ala Asp Ala Arg Glu Asp Tyr Ile
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 Glu Phe Ala Ser Leu Asp Gly Ser Asn Arg His Val Val Leu Ser Gln
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 Asp Ile Pro His Ile Phe Ala Leu Thr Leu Phe Glu Asp Tyr Val Tyr
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 Gly Thr Asn Lys Thr Leu Leu Ile Ser Thr Leu His Arg Pro Met Asp
 3285 3290 3295
 Leu His Val Phe His Ala Leu Arg Gln Pro Asp Val Pro Asn His Pro
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 3345 3350 3355 3360
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 Asp Cys Gly Asp His Ser Asp Glu Pro Pro Asp Cys Pro Glu Phe Lys
 3380 3385 3390
 Cys Arg Pro Gly Gln Phe Gln Cys Ser Thr Gly Ile Cys Thr Asn Pro
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 Val Trp Val Cys Asp Arg Asp Asn Asp Cys Val Asp Gly Ser Asp Glu
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 Lys Asp Ser Gly Arg Cys Ile Pro Ala Arg Trp Lys Cys Asp Gly Glu
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 Asp Asp Cys Gly Asp Gly Ser Asp Glu Pro Lys Glu Glu Cys Asp Glu
 3540 3545 3550
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 3555 3560 3565
 Pro Gly Arg Trp Gln Cys Asp Tyr Asp Asn Asp Cys Gly Asp Asn Ser
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 Asp Glu Glu Ser Cys Thr Pro Arg Pro Cys Ser Glu Ser Glu Phe Ser
 3585 3590 3595 3600
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 His Asp Cys Ala Asp Gly Ser Asp Glu Lys Asp Cys Thr Pro Arg Cys
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 3635 3640 3645
 Trp Arg Cys Asp Ala Asp Ala Asp Cys Met Asp Gly Ser Asp Glu Glu
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 Thr Asp Glu Glu Asp Cys Glu Pro Pro Thr Ala His Thr Thr His Cys
 3745 3750 3755 3760
 Lys Asp Lys Lys Glu Phe Leu Cys Arg Asn Gln Arg Cys Leu Ser Ser
 3765 3770 3775

Ser Leu Arg Cys Asn Met Phe Asp Asp Cys Gly Asp Gly Ser Asp Glu
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 Tyr Cys Ala Cys Arg Ser Gly Phe His Thr Val Pro Gly Gln Pro Gly
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 Cys Gln Asp Ile Asn Glu Cys Leu Arg Phe Gly Thr Cys Ser Gln Leu
 3845 3850 3855
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 Pro Pro Thr Thr Ser Asn Arg His Arg Arg Gln Ile Asp Arg Gly Val
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 Thr Met Tyr Trp Ser Asp Trp Gly Asn His Pro Lys Ile Glu Thr Ala
 4035 4040 4045
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 4050 4055 4060
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 Ala Asp Ala Lys Leu Ser Val Ile Gly Ser Ile Arg Leu Asn Gly Thr
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 Trp Leu Cys Leu Leu Ser Pro Ser Gly Pro Val Cys Thr Cys Pro Asn
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 Gly Lys Arg Leu Asp Asn Gly Thr Cys Val Pro Val Pro Ser Pro Thr
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 Pro Pro Pro Asp Ala Pro Arg Pro Gly Thr Cys Asn Leu Gln Cys Phe
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 Asn Gly Gly Ser Cys Phe Leu Asn Ala Arg Arg Gln Pro Lys Cys Arg
 4225 4230 4235 4240
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 Glu His Cys Arg Asn Gly Gly Thr Cys Ala Ala Ser Pro Ser Gly Met
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 Pro Thr Cys Arg Cys Pro Thr Gly Phe Thr Gly Pro Lys Cys Thr Gln
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Gln Val Cys Ala Gly Tyr Cys Ala Asn Asn Ser Thr Cys Thr Val Asn
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 Gln Gly Asn Gln Pro Gln Cys Arg Cys Leu Pro Gly Phe Leu Gly Asp
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 Cys Gln Met Ala Ala Asp Gly Ser Arg Gln Cys Arg Cys Thr Ala Tyr
 4340 4345 4350
 Phe Glu Gly Ser Arg Cys Glu Val Asn Lys Cys Ser Arg Cys Leu Glu
 4355 4360 4365
 Gly Ala Cys Val Val Asn Lys Gln Ser Gly Asp Val Thr Cys Asn Cys
 4370 4375 4380
 Thr Asp Gly Arg Val Ala Pro Ser Cys Leu Thr Cys Val Gly His Cys
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 Ser Asn Gly Gly Ser Cys Thr Met Asn Ser Lys Met Met Pro Glu Cys
 4405 4410 4415
 Gln Cys Pro Pro His Met Thr Gly Pro Arg Cys Glu Glu His Val Phe
 4420 4425 4430
 Ser Gln Gln Gln Pro Gly His Ile Ala Ser Ile Leu Ile Pro Leu Leu
 4435 4440 4445
 Leu Leu Leu Leu Leu Val Leu Val Ala Gly Val Val Phe Trp Tyr Lys
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 Arg Arg Val Gln Gly Ala Lys Gly Phe Gln His Gln Arg Met Thr Asn
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 Gly Ala Met Asn Val Glu Ile Gly Asn Pro Thr Tyr Lys Met Tyr Glu
 4485 4490 4495
 Gly Gly Glu Pro Asp Asp Val Gly Gly Leu Leu Asp Ala Asp Phe Ala
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 Leu Asp Pro Asp Lys Pro Thr Asn Phe Thr Asn Pro Val Tyr Ala Thr
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 Leu Tyr Met Gly Gly His Gly Ser Arg His Ser Leu Ala Ser Thr Asp
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 Pro Leu Ala
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<210> 1724

<211> 541

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(540)

<223> Xaa = any amino acid or nothing

<400> 1724

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 Leu Ser Leu Leu Ala Pro Ala Pro Thr Met Thr Ser Leu Met Pro Gly
 20 25 30
 Ala Gly Leu Leu Pro Ile Pro Thr Pro Asn Pro Leu Thr Thr Leu Gly
 35 40 45
 Val Ser Leu Ser Ser Leu Gly Ala Ile Pro Ala Ala Ala Leu Asp Pro
 50 55 60
 Asn Ile Ala Thr Leu Gly Glu Ile Pro Gln Pro Pro Leu Met Gly Asn
 65 70 75 80
 Val Asp Pro Ser Lys Ile Asp Glu Ile Arg Arg Thr Val Tyr Val Gly
 85 90 95
 Asn Leu Asn Ser Gln Thr Thr Thr Ala Asp Gln Leu Leu Glu Phe Phe
 100 105 110

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Lys Gln Val Gly Glu Val Lys Phe Val Arg Met Ala Gly Asp Glu Thr
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Gln Pro Thr Arg Phe Ala Phe Val Glu Phe Ala Asp Gln Asn Ser Val
    130                135                140
Pro Arg Ala Leu Ala Phe Asn Gly Val Met Phe Gly Asp Arg Pro Leu
145                150                155                160
Lys Ile Asn His Ser Asn Asn Ala Ile Val Lys Pro Pro Glu Met Thr
    165                170                175
Pro Gln Ala Ala Ala Lys Glu Leu Glu Glu Val Met Lys Arg Val Arg
    180                185                190
Glu Ala Gln Ser Phe Ile Ser Ala Ala Ile Glu Pro Gly Trp Leu His
    195                200                205
Ser Thr Ser Leu Cys Asn Asp Phe Leu Gly Cys Phe Xaa Arg Arg Arg
    210                215                220
Met Tyr Arg Glu Xaa Ala Pro Cys Thr Ile Cys Gly Thr Phe His Leu
225                230                235                240
Cys Leu Ile Ile Asn Trp Asp Leu Xaa Leu Phe Xaa Ala Tyr Thr Ala
    245                250                255
Lys Xaa Phe Phe Pro Pro Arg Val Trp Lys Glu Gln Xaa Lys Lys Arg
    260                265                270
Arg Arg Ser Arg Ser His Thr Arg Ser Lys Ser Arg Ser Ser Ser Lys
    275                280                285
Ser His Ser Arg Arg Lys Arg Ser Gln Ser Lys His Arg Ser Arg Ser
    290                295                300
His Asn Arg Ser Arg Ser Arg Gln Lys Asp Arg Arg Arg Ser Lys Ser
305                310                315                320
Pro His Lys Lys Arg Ser Lys Ser Arg Glu Arg Arg Lys Ser Arg Ser
    325                330                335
Arg Ser His Ser Arg Asp Lys Arg Lys Asp Thr Arg Glu Lys Ile Lys
    340                345                350
Glu Lys Glu Arg Val Lys Glu Lys Asp Arg Glu Lys Glu Arg Glu Arg
    355                360                365
Glu Lys Glu Arg Glu Lys Glu Lys Glu Arg Gly Lys Asn Lys Asp Arg
    370                375                380
Asp Lys Glu Arg Glu Lys Asp Arg Glu Lys Asp Lys Glu Lys Asp Arg
385                390                395                400
Glu Arg Glu Arg Glu Lys Glu His Glu Lys Asp Arg Asp Lys Glu Lys
    405                410                415
Glu Lys Glu Gln Asp Lys Glu Lys Glu Arg Glu Lys Asp Arg Ser Lys
    420                425                430
Glu Ile Asp Glu Lys Arg Lys Lys Asp Lys Lys Ser Arg Thr Pro Pro
    435                440                445
Arg Ser Tyr Asn Ala Ser Arg Arg Ser Arg Ser Ser Ser Arg Glu Arg
    450                455                460
Arg Arg Arg Arg Ser Arg Ser Ser Ser Arg Ser Pro Arg Thr Ser Lys
465                470                475                480
Thr Ile Lys Arg Lys Ser Ser Arg Ser Pro Ser Pro Arg Ser Arg Asn
    485                490                495
Lys Lys Asp Lys Lys Arg Glu Lys Glu Arg Asp His Ile Ser Glu Arg
    500                505                510
Arg Glu Arg Glu Arg Ser Thr Ser Met Arg Lys Ser Ser Asn Asp Arg
    515                520                525
Asp Gly Lys Glu Lys Leu Glu Lys Asn Ser Thr Ser
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<210> 1725

<211> 107

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(103)

<223> Xaa = any amino acid or nothing

<400> 1725

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 1           5           10           15
Asp Ile Ile Arg His Pro Pro Leu Ser Pro Asn Leu Ala Leu Ser Gly
           20           25           30
Phe Phe Pro Asn Leu Lys Lys Ser Leu Arg Gly Thr His Phe Ser Ser
           35           40           45
Val Lys Lys Thr Thr Leu Thr Trp Leu Asn Ser Gln Asp Pro Trp Phe
           50           55           60
Phe Phe Tyr Pro Xaa Ser Pro Asp Leu Gln Ile Pro Ser Ser Phe Arg
65           70           75           80
Asn Gly Leu Asn Asp Trp Tyr His His Ser Gln Lys Cys Pro Asp Leu
           85           90           95
Asp Gly Ala Tyr Val Lys Lys
           100           103

```

<210> 1726

<211> 96

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(95)

<223> Xaa = any amino acid or nothing

<400> 1726

```

Gly Val Xaa Trp Cys Asp Leu Gly Ser Pro Gln Pro Pro Pro Gly
 1           5           10           15
Phe Lys Gln Phe Cys Leu Gly Arg Ser Ser Ser Trp Asp Tyr Arg His
           20           25           30
Val Pro Pro His Pro Ala Asn Phe Val Phe Leu Leu Glu Thr Gly Phe
           35           40           45
Leu His Ala Gly Gln Ala Gly Leu Gly Asp Pro Pro Ala Ser Ala Ser
           50           55           60
Gln Ser Ala Gly Ile Thr Gly Val Ser His Thr Trp Pro Lys Asn His
65           70           75           80
Leu Ile Phe Tyr Ala Cys Leu Val Ile Arg Ser Lys Arg Ile Lys
           85           90           95

```

<210> 1727

<211> 339

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(337)

<223> Xaa = any amino acid or nothing

<400> 1727

```

Lys Thr Gly Tyr Thr Ser Arg Gly Ser Pro Leu Ser Pro Gln Ser Ser
 1           5           10           15
Ile Asp Ser Glu Leu Ser Thr Ser Glu Leu Glu Asp Asp Ser Ile Ser
           20           25           30
Met Gly Tyr Lys Leu Gln Asp Leu Thr Asp Val Gln Ile Met Ala Arg
           35           40           45

```



```

Leu Gln Glu Glu Ser Leu Arg Gln Asp Tyr Ala Ser Thr Ser Ala Ser
 50          55          60
Val Ser Arg His Ser Ser Val Ser Leu Ser Ser Gly Lys Lys Gly
 65          70          75          80
Thr Cys Ser Asp Gln Glu Tyr Asp Gln Tyr Ser Leu Glu Asp Glu Glu
          85          90          95
Glu Phe Asp His Leu Pro Pro Pro Gln Pro Arg Leu Pro Arg Cys Ser
 100        105        110
Pro Phe Gln Arg Gly Ile Pro His Ser Gln Thr Phe Ser Ser Ile Arg
 115        120        125
Glu Cys Arg Arg Ser Pro Ser Ser Gln Tyr Phe Pro Ser Asn Asn Tyr
 130        135        140
Gln Gln Gln Gln Tyr Tyr Ser Pro Gln Ala Gln Thr Pro Asp Gln Gln
 145        150        155        160
Pro Asn Arg Thr Asn Gly Asp Lys Pro Pro Lys Lys Tyr Ala Xaa Pro
          165        170        175
Ser Pro Asp Ala Lys Tyr Asn Cys His Xaa Xaa Gln His Ser Ser Pro
          180        185        190
Val Thr Val Arg Asn Ser Gln Ser Phe Asp Ser Ser Leu His Gly Ala
          195        200        205
Gly Asn Gly Ile Ser Arg Ile Gln Ser Cys Ile Pro Ser Pro Gly Gln
 210        215        220
Leu Gln His Arg Val His Ser Val Gly His Phe Pro Val Ser Ile Arg
 225        230        235        240
Gln Pro Leu Lys Ala Thr Ala Tyr Val Ser Pro Thr Val Gln Gly Ser
          245        250        255
Ser Asn Met Pro Leu Ser Asn Gly Leu Gln Leu Tyr Ser Asn Thr Gly
          260        265        270
Ile Pro Thr Pro Asn Lys Ala Ala Ser Gly Ile Met Gly Arg Ser
          275        280        285
Ala Leu Pro Arg Pro Ser Leu Ala Ile Asn Gly Ser Asn Leu Pro Arg
          290        295        300
Ser Lys Ile Ala Gln Pro Val Arg Ser Phe Leu Gln Pro Pro Lys Pro
 305        310        315        320
Leu Ser Ser Leu Ser Thr Leu Arg Asp Gly Asn Trp Arg Asp Gly Cys
          325        330        335
Tyr
337

```

```

<210> 1728
<211> 563
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(558)
<223> Xaa = any amino acid or nothing

```

```

. <400> 1728
Val Pro Gly Val Thr Glu Ser Arg Pro Ser Val Leu Arg Gly Asp His
 1          5          10          15
Leu Phe Ala Leu Leu Ser Ser Glu Thr His Gln Glu Asp Pro Ile Thr
          20          25          30
Tyr Lys Gly Phe Val His Lys Val Glu Leu Asp Arg Val Lys Leu Ser
          35          40          45
Phe Ser Met Ser Leu Leu Ser Arg Phe Val Gly Trp Gly Xaa Pro Phe
          50          55          60
Lys Val Asn Phe Tyr Thr Phe Asn Arg Gln Pro Leu Arg Val Gln His
          65          70          75          80
Arg Ala Leu Glu Leu Thr Gly Arg Trp Leu Leu Trp Pro Met Leu Phe
          85          90          95

```

```

Pro Val Ala Pro Arg Asp Val Pro Leu Leu Pro Ser Asp Val Lys Leu
      100      105      110
Lys Leu Tyr Asp Arg Ser Leu Glu Ser Asn Pro Glu Gln Leu Gln Ala
      115      120      125
Met Arg His Ile Val Thr Gly Thr Thr Arg Pro Ala Pro Tyr Ile Ile
      130      135      140
Phe Gly Pro Pro Gly Thr Gly Lys Thr Val Thr Leu Val Glu Ala Ile
      145      150      155      160
Lys Gln Val Val Lys His Leu Pro Lys Ala His Ile Leu Ala Cys Ala
      165      170      175
Pro Ser Asn Ser Gly Ala Asp Leu Leu Cys Gln Arg Leu Arg Val His
      180      185      190
Leu Pro Ser Ser Ile Tyr Arg Leu Leu Ala Pro Ser Arg Asp Ile Arg
      195      200      205
Met Val Pro Glu Asp Ile Lys Pro Cys Cys Asn Trp Asp Ala Lys Lys
      210      215      220
Gly Glu Tyr Val Phe Pro Ala Lys Lys Lys Leu Gln Glu Tyr Arg Val
      225      230      235      240
Leu Ile Thr Thr Leu Ile Thr Ala Gly Arg Leu Val Ser Ala Gln Phe
      245      250      255
Pro Ile Asp His Phe Thr His Ile Phe Ile Asp Glu Ala Gly His Cys
      260      265      270
Met Glu Pro Glu Ser Leu Val Ala Ile Ala Gly Leu Met Glu Val Lys
      275      280      285
Glu Thr Gly Asp Pro Gly Gly Gln Leu Val Leu Ala Gly Asp Pro Arg
      290      295      300
Gln Leu Gly Pro Val Leu Arg Ser Pro Leu Thr Gln Lys His Gly Leu
      305      310      315      320
Gly Tyr Ser Leu Leu Glu Arg Leu Leu Thr Tyr Asn Ser Leu Tyr Lys
      325      330      335
Lys Gly Pro Asp Gly Tyr Asp Pro Gln Phe Ile Thr Lys Leu Leu Arg
      340      345      350
Asn Tyr Arg Ser His Pro Thr Ile Leu Asp Ile Pro Asn Gln Leu Tyr
      355      360      365
Tyr Glu Gly Glu Leu Gln Ala Cys Ala Asp Val Val Asp Arg Glu Arg
      370      375      380
Phe Cys Arg Trp Ala Gly Leu Pro Arg Gln Gly Phe Pro Ile Ile Phe
      385      390      395      400
His Gly Val Met Gly Lys Asp Glu Arg Glu Gly Asn Ser Pro Ser Phe
      405      410      415
Phe Asn Pro Glu Glu Ala Ala Thr Val Thr Ser Tyr Leu Lys Leu Leu
      420      425      430
Leu Ala Pro Ser Ser Lys Lys Gly Lys Ala Arg Leu Ser Pro Arg Ser
      435      440      445
Val Gly Val Ile Ser Pro Tyr Arg Lys Gln Val Glu Lys Ile Arg Tyr
      450      455      460
Cys Ile Thr Lys Leu Asp Arg Glu Leu Arg Gly Leu Asp Asp Ile Lys
      465      470      475      480
Asp Leu Lys Val Thr Cys Cys Ser Thr Val Thr Pro Cys Leu Pro Cys
      485      490      495
Ala Pro Thr Cys Pro Leu Pro Glu Thr Ser Ser Ser Phe His Ser Ser
      500      505      510
Pro Arg Pro Arg Pro Thr Pro Ala Ala Leu Asn Arg Ala Arg Ala Leu
      515      520      525
Pro Glu Pro Leu Thr Pro Gly Asp Ser Asn Leu Arg Val Trp Asp Gly
      530      535      540
Ile Arg Lys Pro Ala Cys Leu Thr Asn Thr Ser Cys His Ser
      545      550      555      558

```

<210> 1729

<211> 101

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(101)

<223> Xaa = any amino acid or nothing

<400> 1729

```

Pro Lys Ala Ala Pro Ser Val Xaa Leu Trp Phe Pro Pro Phe Leu Xaa
 1          5          10          15
Gly Ser Phe Lys Pro Thr Lys Gly His Thr Xaa Cys Val Xaa Ile Lys
          20          25          30
Xaa Leu Ser Thr Arg Glu Ala Xaa Asp Ser Xaa Pro Gly Arg Gln Ile
          35          40          45
Ala Xaa Xaa Arg Gln Gly Gly Lys Val Glu Thr Thr Thr Ala Leu Xaa
          50          55          60
Lys Gln Ser Asn Asn Lys Gly Thr Arg Ala Ser Ser Tyr Xaa Glu Pro
          65          70          75          80
Asp Ala Xaa Glu Gln Trp Lys Phe Pro His Lys Lys Leu Gln Leu Pro
          85          90          95
Gly Xaa Thr His Glu
          100 101

```

<210> 1730

<211> 107

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(107)

<223> Xaa = any amino acid or nothing

<400> 1730

```

Gly Gly Thr Gly His Pro His Pro Ala Arg Pro Pro Leu Ser Gly Val
 1          5          10          15
Gly Gly Cys Gln Cys Ser His Ser Lys Pro Trp Thr Ala Gly Ser Pro
          20          25          30
Glu Gln Arg Asp His Pro Ala Pro His Lys Gln Ile Glu Ala Gly Gln
          35          40          45
Gly Leu Pro Gly Pro Gln Ala Trp Gly Gly Xaa Lys Gly Pro Ala Xaa
          50          55          60
Leu Leu Pro Gly Pro Gly Gly Gly Pro Gly Pro Val Ala Ser Leu Glu
          65          70          75          80
Ala Arg Ala Gln Ala Ser Ser Gly Val Thr Pro Asn Gly Gly Gly Arg
          85          90          95
Thr Tyr Pro Tyr Pro Thr Phe Ser Ser Gly Glu
          100          105          107

```

<210> 1731

<211> 282

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(280)

<223> Xaa = any amino acid or nothing

<400> 1731

Gly Thr Arg Pro Gly His Leu Pro Ala Pro Ser Asp Gly Phe Cys Val
 1 5 10 15
 His Leu Xaa Ser Ile Pro Ser Trp Gly Ser Phe Xaa Gly Glu Ser Leu
 20 25 30
 Glu Met Gln Leu Ile Thr Ser Leu Gly Leu Gln Glu Phe Asp Ile Ala
 35 40 45
 Arg Asn Val Leu Glu Leu Ile Tyr Ala Gln Thr Leu Val Trp Ile Gly
 50 55 60
 Ile Phe Phe Cys Pro Leu Leu Pro Phe Ile Gln Met Ile Met Leu Phe
 65 70 75 80
 Ile Met Phe Tyr Ser Lys Asn Ile Ser Leu Met Met Asn Phe Gln Pro
 85 90 95
 Pro Ser Lys Ala Trp Arg Ala Ser Gln Met Met Thr Phe Phe Ile Phe
 100 105 110
 Leu Leu Phe Phe Pro Ser Phe Thr Gly Val Leu Cys Thr Leu Ala Ile
 115 120 125
 Thr Ile Trp Arg Leu Lys Pro Ser Ala Asp Cys Gly Pro Phe Arg Gly
 130 135 140
 Leu Pro Leu Phe Ile His Ser Ile Tyr Ser Trp Ile Asp Thr Leu Ser
 145 150 155 160
 Thr Arg Pro Gly Tyr Leu Trp Val Val Trp Ile Tyr Arg Asn Leu Ile
 165 170 175
 Gly Ser Val His Phe Phe Phe Ile Leu Thr Leu Ile Val Leu Ile Ile
 180 185 190
 Thr Tyr Leu Tyr Trp Gln Ile Thr Glu Gly Arg Lys Ile Met Ile Arg
 195 200 205
 Leu Leu His Glu Gln Ile Ile Asn Glu Gly Lys Asp Lys Met Phe Leu
 210 215 220
 Ile Glu Lys Leu Ile Lys Leu Gln Asp Met Glu Lys Lys Ala Asn Pro
 225 230 235 240
 Ser Ser Leu Val Leu Glu Arg Arg Glu Val Glu Gln Gln Gly Phe Leu
 245 250 255
 His Leu Gly Glu His Asp Gly Ser Leu Asp Leu Arg Ser Arg Arg Ser
 260 265 270
 Val Gln Glu Gly Asn Pro Arg Ala
 275 280

<210> 1732
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 1732
 Leu Leu Met Ile Lys Val Ser Ser Thr Cys Phe Ser Cys His Leu His
 1 5 10 15
 His His His His His His Arg His His Gln Gly His Asn Ser Leu
 20 25 30
 Phe Phe Ser Leu Lys Ser Ser Ser Asn Ser Ser Thr Leu Pro Val Tyr
 35 40 45
 Leu Ser Tyr Asn Ile Ile Leu Val Phe Ser Lys Cys Leu Val Phe Asp
 50 55 60
 Phe Leu Phe Ser Asn Ala Cys Leu
 65 70 72

<210> 1733
 <211> 400
 <212> PRT
 <213> Homo sapiens

<221> misc_feature

<222> (1)...(399)

<223> Xaa = any amino acid or nothing

<400> 1733

```

Lys Gly Ala Pro Ser Phe Val Arg Leu Tyr Gln Tyr Pro Asn Phe Ala
 1          5          10          15
Gly Pro His Ala Ala Leu Ala Asn Lys Ser Phe Phe Lys Ala Asp Lys
 20          25          30
Val Thr Met Leu Trp Asn Lys Lys Ala Thr Ala Val Leu Val Ile Ala
 35          40          45
Ser Thr Asp Val Asp Lys Thr Gly Ala Ser Tyr Tyr Gly Glu Gln Thr
 50          55          60
Leu His Tyr Ile Ala Thr Asn Gly Glu Ser Ala Val Val Gln Leu Pro
 65          70          75          80
Lys Asn Gly Pro Ile Tyr Asp Val Val Trp Asn Ser Ser Ser Thr Glu
 85          90          95
Phe Cys Ala Val Tyr Gly Phe Met Pro Ala Lys Ala Thr Ile Phe Asn
100          105          110
Leu Lys Cys Asp Pro Val Phe Asp Phe Gly Thr Gly Pro Arg Asn Ala
115          120          125
Ala Tyr Tyr Ser Pro His Gly His Ile Leu Val Leu Ala Gly Phe Gly
130          135          140
Asn Leu Ile Leu Gln Ile Xaa Ala Asp Ile Met Lys Val Trp Asn Val
145          150          155          160
Lys Asn Tyr Lys Leu Ile Ser Lys Pro Val Ala Ser Asp Ser Thr Tyr
165          170          175
Phe Ala Trp Cys Pro Asp Gly Glu His Ile Leu Thr Ala Thr Cys Ala
180          185          190
Pro Arg Leu Arg Val Asn Asn Gly Tyr Lys Ile Trp His Tyr Thr Gly
195          200          205
Ser Ile Leu His Lys Tyr Asp Val Pro Ser Asn Ala Glu Leu Trp Gln
210          215          220
Val Ser Trp Gln Pro Phe Leu Asp Gly Ile Phe Pro Ala Lys Thr Ile
225          230          235          240
Thr Tyr Gln Ala Val Pro Ser Glu Val Pro Asn Glu Glu Pro Lys Val
245          250          255
Ala Thr Ala Tyr Arg Pro Pro Ala Leu Arg Asn Lys Pro Ile Thr Asn
260          265          270
Ser Lys Leu His Glu Glu Glu Pro Pro Gln Asn Met Lys Pro Gln Ser
275          280          285
Gly Asn Asp Lys Pro Leu Ser Lys Thr Ala Leu Lys Asn Gln Arg Lys
290          295          300
His Glu Ala Lys Lys Ala Ala Lys Gln Glu Ala Arg Ser Asp Lys Ser
305          310          315          320
Pro Asp Leu Ala Pro Thr Pro Ala Pro Gln Ser Thr Pro Arg Asn Thr
325          330          335
Val Ser Gln Ser Ile Ser Gly Asp Pro Glu Ile Asp Lys Lys Ile Lys
340          345          350
Asn Leu Lys Lys Lys Leu Lys Ala Ile Glu Gln Leu Lys Glu Gln Ala
355          360          365
Ala Thr Gly Lys Gln Leu Glu Lys Asn Gln Leu Glu Lys Ile Gln Lys
370          375          380
Glu Thr Ala Leu Leu Gln Glu Leu Glu Asp Leu Glu Leu Gly Ile
385          390          395          399

```

<210> 1734

<211> 224

<212> PRT

<213> Homo sapiens

<400> 1734
 Ile Arg Ser Pro Ala Ala Arg Ser Pro Gly Leu Glu Thr Pro Thr Cys
 1 5 10 15
 Leu Leu Phe Val Ile Ala Ala Ile Ala Ala Val Phe Val Asp Ser Ala
 20 25 30
 Ile Pro Arg Leu Thr Gln His Arg Pro Gln Asp Gly Ser Phe Pro Tyr
 35 40 45
 Thr Ile Leu Asp Pro Pro Leu Tyr Leu Pro Gly Gln Cys Ala Pro Pro
 50 55 60
 Gln Pro Leu Ser Gln Cys Ala Arg Arg Val His Gly Glu Lys Leu Arg
 65 70 75 80
 Arg Pro Thr Phe Gly Pro Arg His Arg Gly Ala Gly Thr Ala Lys Met
 85 90 95
 Ser Ala Ser Leu Val Arg Ala Thr Val Arg Ala Val Ser Lys Arg Lys
 100 105 110
 Leu Gln Pro Thr Arg Ala Ala Leu Thr Leu Thr Pro Ser Ala Val Asn
 115 120 125
 Lys Ile Lys Gln Leu Leu Lys Asp Lys Pro Glu His Val Gly Val Lys
 130 135 140
 Val Gly Val Arg Thr Arg Gly Cys Asn Gly Leu Ser Tyr Thr Leu Glu
 145 150 155 160
 Tyr Thr Lys Thr Lys Gly Asp Ser Asp Glu Glu Val Ile Gln Asp Gly
 165 170 175
 Val Arg Val Phe Ile Glu Lys Lys Ala Gln Leu Thr Leu Leu Gly Thr
 180 185 190
 Glu Met Asp Tyr Val Glu Asp Lys Leu Ser Ser Glu Phe Val Phe Asn
 195 200 205
 Asn Pro Asn Ile Lys Gly Thr Cys Gly Cys Gly Glu Ser Phe Asn Ile
 210 215 220 224

<210> 1735
 <211> 842
 <212> PRT
 <213> Homo sapiens

<400> 1735
 Val Ala Met Gly Thr Pro Arg Ala Gln His Pro Pro Pro Pro Gln Leu
 1 5 10 15
 Leu Phe Leu Ile Leu Leu Ser Cys Pro Trp Ile Gln Gly Leu Pro Leu
 20 25 30
 Lys Glu Glu Glu Ile Leu Pro Glu Pro Gly Ser Glu Thr Pro Thr Val
 35 40 45
 Ala Ser Glu Ala Leu Ala Glu Leu Leu His Gly Ala Leu Leu Arg Arg
 50 55 60
 Gly Pro Glu Met Gly Tyr Leu Pro Gly Pro Pro Leu Gly Pro Glu Gly
 65 70 75 80
 Gly Glu Glu Glu Thr Thr Thr Thr Ile Ile Thr Thr Thr Thr Val Thr
 85 90 95
 Thr Thr Val Thr Ser Pro Val Leu Cys Asn Asn Asn Ile Ser Glu Gly
 100 105 110
 Glu Gly Tyr Val Glu Ser Pro Asp Leu Gly Ser Pro Val Ser Arg Thr
 115 120 125
 Leu Gly Leu Leu Asp Cys Thr Tyr Ser Ile His Val Tyr Pro Gly Tyr
 130 135 140
 Gly Ile Glu Ile Gln Val Gln Thr Leu Asn Leu Ser Gln Glu Glu Glu
 145 150 155 160
 Leu Leu Val Leu Ala Gly Gly Gly Ser Pro Gly Leu Ala Pro Arg Leu
 165 170 175

Leu Ala Asn Ser Ser Met Leu Gly Glu Gly Gln Val Leu Arg Ser Pro
 180 185 190
 Thr Asn Arg Leu Leu Leu His Phe Gln Ser Pro Arg Val Pro Arg Gly
 195 200 205
 Gly Gly Phe Arg Ile His Tyr Gln Ala Tyr Leu Leu Ser Cys Gly Phe
 210 215 220
 Pro Pro Arg Pro Ala His Gly Asp Val Ser Val Thr Asp Leu His Pro
 225 230 235 240
 Gly Gly Thr Ala Thr Phe His Cys Asp Ser Gly Tyr Gln Leu Gln Gly
 245 250 255
 Glu Glu Thr Leu Ile Cys Leu Asn Gly Thr Arg Pro Ser Trp Asn Gly
 260 265 270
 Glu Thr Pro Ser Cys Met Ala Ser Cys Gly Gly Thr Ile His Asn Ala
 275 280 285
 Thr Leu Gly Arg Ile Val Ser Pro Glu Pro Gly Gly Ala Val Gly Pro
 290 295 300
 Asn Leu Thr Cys Arg Trp Val Ile Glu Ala Ala Glu Gly Arg Arg Leu
 305 310 315 320
 His Leu His Phe Glu Arg Val Ser Leu Asp Glu Asp Asn Asp Arg Leu
 325 330 335
 Met Val Arg Ser Gly Gly Ser Pro Leu Ser Pro Val Ile Tyr Asp Ser
 340 345 350
 Asp Met Asp Asp Val Pro Glu Arg Gly Leu Ile Ser Asp Ala Gln Ser
 355 360 365
 Leu Tyr Val Glu Leu Leu Ser Glu Thr Pro Ala Asn Pro Leu Leu Leu
 370 375 380
 Ser Leu Arg Phe Glu Ala Phe Glu Glu Asp Arg Cys Phe Ala Pro Phe
 385 390 395 400
 Leu Ala His Gly Asn Val Thr Thr Thr Asp Pro Glu Tyr Arg Pro Gly
 405 410 415
 Ala Leu Ala Thr Phe Ser Cys Leu Pro Gly Tyr Ala Leu Glu Pro Pro
 420 425 430
 Gly Pro Pro Asn Ala Ile Glu Cys Val Asp Pro Thr Glu Pro His Trp
 435 440 445
 Asn Asp Thr Glu Pro Ala Cys Lys Ala Met Cys Gly Gly Glu Leu Ser
 450 455 460
 Glu Pro Ala Gly Val Val Leu Ser Pro Asp Trp Pro Gln Ser Tyr Ser
 465 470 475 480
 Pro Gly Gln Asp Cys Val Trp Gly Val His Val Gln Glu Glu Lys Arg
 485 490 495
 Ile Leu Leu Gln Val Glu Ile Leu Asn Val Arg Glu Gly Asp Met Leu
 500 505 510
 Thr Leu Phe Asp Gly Asp Gly Pro Ser Ala Arg Val Leu Ala Gln Leu
 515 520 525
 Arg Gly Pro Gln Pro Arg Arg Arg Leu Leu Ser Ser Gly Pro Asp Leu
 530 535 540
 Thr Leu Gln Phe Gln Ala Pro Pro Gly Pro Pro Asn Pro Gly Leu Gly
 545 550 555 560
 Gln Gly Phe Val Leu His Phe Lys Glu Val Pro Arg Asn Asp Thr Cys
 565 570 575
 Pro Glu Leu Pro Pro Glu Trp Gly Trp Arg Thr Ala Ser His Gly
 580 585 590
 Asp Leu Ile Arg Gly Thr Val Leu Thr Tyr Gln Cys Glu Pro Gly Tyr
 595 600 605
 Glu Leu Leu Gly Ser Asp Ile Leu Thr Cys Gln Trp Asp Leu Ser Trp
 610 615 620
 Ser Ala Ala Pro Pro Ala Cys Gln Lys Ile Met Thr Cys Ala Asp Pro
 625 630 635 640
 Gly Glu Ile Ala Asn Gly His Arg Thr Ala Ser Asp Ala Gly Phe Pro
 645 650 655
 Val Gly Ser His Val Gln Tyr Arg Cys Leu Pro Gly Tyr Ser Leu Glu
 660 665 670
 Gly Ala Ala Met Leu Thr Cys Tyr Ser Arg Asp Thr Gly Thr Pro Lys
 675 680 685

```

Trp Ser Asp Arg Val Pro Lys Cys Ala Leu Lys Tyr Glu Pro Cys Leu
690                      695                      700
Asn Pro Gly Val Pro Glu Asn Gly Tyr Gln Thr Leu Tyr Lys His His
705                      710                      715                      720
Tyr Gln Ala Gly Glu Ser Leu Arg Phe Phe Cys Tyr Glu Gly Phe Glu
725                      730                      735
Leu Ile Gly Glu Val Thr Ile Thr Cys Val Pro Gly His Pro Ser Gln
740                      745                      750
Trp Thr Ser Gln Pro Pro Leu Cys Lys Val Thr Gln Thr Thr Asp Pro
755                      760                      765
Ser Arg Gln Leu Glu Gly Gly Asn Leu Ala Leu Ala Ile Leu Leu Pro
770                      775                      780
Leu Gly Leu Val Ile Val Leu Gly Ser Gly Val Tyr Ile Tyr Tyr Thr
785                      790                      795                      800
Lys Leu Gln Gly Lys Ser Leu Phe Gly Phe Ser Gly Ser His Ser Tyr
805                      810                      815
Ser Pro Ile Thr Val Glu Ser Asp Phe Ser Asn Pro Leu Tyr Glu Ala
820                      825                      830
Gly Asp Thr Arg Glu Tyr Glu Val Ser Ile
835                      840                      842

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<210> 1736
 <211> 582
 <212> PRT
 <213> Homo sapiens

```

<400> 1736
Gly Thr Ser Thr Val Thr Met Ala Thr Lys Lys His Phe Ser Ile Ile
1      5      10      15
Leu Asn Leu Leu Gly Met Leu Leu Lys Lys Asp Asn Gln Asp Thr Arg
20      25      30
Lys Leu Leu Met Thr Trp Ala Leu Glu Val Ala Val Val Met Lys Lys
35      40      45
Ser Glu Thr Tyr Ala Pro Leu Phe Cys Leu Pro Ser Phe His Lys Phe
50      55      60
Cys Lys Gly Leu Leu Ala Asp Thr Leu Val Glu Asp Val Asn Ile Cys
65      70      75      80
Leu Gln Ala Cys Ser Ser Leu His Ala Leu Ser Ser Ser Leu Pro Asp
85      90      95
Asp Leu Leu Gln Arg Cys Val Asp Val Cys Arg Val Gln Leu Val His
100     105     110
Arg Gly Thr Cys Ile Arg Gln Ala Phe Gly Lys Leu Leu Lys Ser Ile
115     120     125
Pro Leu Gly Val Phe Leu Ser Asn Asn Asn His Thr Glu Ile Gln Glu
130     135     140
Ile Ser Leu Ala Leu Arg Ser His Met Ser Lys Ala Pro Ser Asn Thr
145     150     155     160
Phe His Pro Gln Asp Phe Ser Asp Val Ile Ser Phe Ile Leu Tyr Gly
165     170     175
Asn Ser His Arg Thr Gly Lys Asp Asn Trp Leu Glu Arg Leu Phe Tyr
180     185     190
Ser Cys Gln Arg Leu Asp Lys Arg Asp Gln Ser Thr Ile Pro Arg Asn
195     200     205
Leu Leu Lys Thr Asp Ala Val Leu Trp Gln Trp Ala Ile Trp Glu Ala
210     215     220
Ala Gln Phe Thr Val Leu Ser Lys Leu Arg Thr Pro Leu Gly Arg Ala
225     230     235     240
Gln Asp Thr Phe Gln Thr Ile Glu Gly Ile Ile Arg Ser Leu Ala Gly
245     250     255
His Thr Leu Asn Pro Asp Gln Asp Val Ser Gln Trp Thr Thr Ala Asp
260     265     270

```



```

Asn Asp Glu Gly His Gly Asn Asn Gln Leu Arg Leu Val Leu Leu Leu
      275              280              285
Gln Tyr Leu Glu Asn Leu Glu Lys Leu Met Tyr Asn Ala Tyr Glu Gly
      290              295              300
Cys Ala Asn Ala Leu Thr Ser Pro Pro Lys Val Ile Arg Thr Phe Leu
305              310              315              320
Tyr Thr Asn Arg Gln Thr Cys Gln Asp Trp Leu Thr Arg Ile Arg Leu
      325              330              335
Ser Ile Met Arg Val Gly Leu Leu Ala Gly Gln Pro Ala Val Thr Val
      340              345              350
Arg His Gly Phe Asp Leu Leu Thr Glu Met Lys Thr Thr Ser Leu Ser
      355              360              365
Gln Gly Asn Glu Leu Glu Val Ser Ile Met Met Val Val Glu Ala Leu
      370              375              380
Cys Glu Leu His Cys Pro Glu Ala Ile Gln Gly Ile Ala Val Trp Ser
385              390              395              400
Ser Ser Ile Val Gly Lys His Leu Leu Trp Ile Asn Ser Val Ala Gln
      405              410              415
Gln Ala Glu Gly Arg Phe Glu Lys Ala Ser Val Glu Tyr Gln Glu His
      420              425              430
Leu Cys Ala Met Thr Gly Val Asp Cys Cys Ile Ser Ser Phe Asp Lys
      435              440              445
Ser Val Leu Thr Leu Ala Ser Ala Gly Cys Lys Ser Ala Ser Leu Lys
      450              455              460
His Cys Leu Asn Gly Glu Ser Arg Lys Ser Val Leu Ser Lys Pro Thr
465              470              475              480
Asp Ser Ser Pro Glu Val Ile Asn Tyr Leu Gly Asn Lys Ala Cys Glu
      485              490              495
Cys Tyr Ile Ser Thr Ala Asp Trp Ala Ala Val Gln Glu Trp Gln Asn
      500              505              510
Ala Ile His Asp Leu Lys Lys Ser Thr Ser Ser Thr Ser Leu Asn Leu
      515              520              525
Lys Ala Asp Phe Asn Tyr Ile Lys Ser Leu Ser Ser Phe Glu Ser Gly
      530              535              540
Lys Phe Val Glu Cys Thr Glu Gln Leu Glu Leu Leu Pro Gly Glu Asn
545              550              555              560
Ile Asn Leu Leu Ala Gly Gly Ser Lys Glu Lys Ile Asp Met Lys Lys
      565              570              575
Leu Leu Arg Asn Met
      580 581

```

<210> 1737

<211> 101

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(100)

<223> Xaa = any amino acid or nothing

<400> 1737

```

Met Asp Ile Phe Leu Tyr Asn Cys Lys Tyr Gln Val Gln Thr Glu Ile
  1              5              10              15
Xaa Asn Ser Ile Gln His Ile Met Ala Ser Lys Lys Leu Ser Arg Phe
      20              25              30
Leu Lys Tyr Val His Asn Leu Xaa Ala Glu Asn Tyr Lys Thr Leu Met
      35              40              45
Lys Xaa Ile Asn Glu Asp Leu Asn Lys Gln Arg Asp Val Pro Tyr Ser
      50              55              60
Xaa Thr Ala Arg Leu Asn Lys Met Ser Ile Pro Thr Lys Thr Ile Phe
      65              70              75              80

```

Arg Phe Lys Ala Ile Tyr Ile Lys Ile Pro Ala Thr Tyr Phe Ile Glu
 85 90 95
 Thr Asn Met Gln
 100

<210> 1738
 <211> 86
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(86)
 <223> Xaa = any amino acid or nothing

<400> 1738
 Pro Gln Trp Leu Gly Leu Gln Val Tyr Ala Leu Pro Pro Ala Asn Phe
 1 5 10 15
 Val Phe Phe Val Glu Met Arg Ser Thr Ile Leu Ala Gln Thr Gly Phe
 20 25 30
 Glu Leu Leu Asp Ser Ser Asp Leu Pro Ala Ser Ala Ser Lys Ser Ala
 35 40 45
 Gly Ile Thr Cys Met Ser His His Ala Arg Thr Leu Ser Leu Lys Xaa
 50 55 60
 Trp Pro Phe Cys Leu Ser Ala Thr Gln Glu Lys Phe Cys Xaa Pro Ala
 65 70 75 80
 Ser Glu Gly Val Ala Trp
 85 86

<210> 1739
 <211> 112
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(111)
 <223> Xaa = any amino acid or nothing

<400> 1739
 Leu Asp Gly Tyr His Thr Pro Ile Tyr Met Leu Asn Arg Ile Ile Arg
 1 5 10 15
 Leu Pro Ala Ala Leu Xaa Ile Ile Ser Asp Gln Thr Gly His Ala Leu
 20 25 30
 Thr Ile Leu Thr Arg Leu Glu Thr Gln Met Ile Asn Ala Asp Tyr Gln
 35 40 45
 Asn Lys Leu Thr Leu Asp Tyr Leu Leu Thr Thr Asp Arg Glu Val Tyr
 50 55 60
 Glu Pro Phe Asn Leu Thr Asn Tyr Cys Leu His Ile His Asn Gln Arg
 65 70 75 80
 Leu Gly Ala Tyr Asp Leu Gly Xaa Val Xaa Gln Lys Leu Ala His Val
 85 90 95
 Pro Val Gln Val Xaa His Gly Phe Asp Pro Glu Ala Met Phe Arg
 100 105 110 111

<210> 1740
 <211> 124
 <212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(123)

<223> Xaa = any amino acid or nothing

<400> 1740

```

Gly Arg Cys His Asp Gln Asn Lys Gly Lys Ser Asp Gly Pro Asp Ala
 1           5           10           15
Gln Ala Glu Ala Cys Gly Gly Glu Ser Thr Tyr Gln Glu Leu Leu Val
          20          25          30
Asn Gln Asn Pro Ile Gly Gln Pro Leu Ala Cys Arg Arg Leu Thr Arg
          35          40          45
Lys Ile Tyr Glu Gly Ile Lys Lys Ala Val Lys Pro Asn His Ser Pro
          50          55          60
Arg Gly Val Lys Lys Val His Lys Phe Val Asn Lys Gly Glu Lys Gly
          65          70          75          80
Ile Met Val Leu Ala Gly Asp Thr Leu Gly Ile Gly Val Tyr Cys Leu
          85          90          95
Leu Pro Cys Met Cys Xaa Asp Arg Lys Leu Thr Tyr Ala His Ile Pro
          100         105         110
Ser Thr Thr Asp Leu Gly Ala Gly Ala Gly Tyr
          115         120         123

```

<210> 1741

<211> 134

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(133)

<223> Xaa = any amino acid or nothing

<400> 1741

```

Phe Phe Gln Glu Met Leu Asp Ile Met Lys Ala Ile Ser Asp Met Met
 1           5           10           15
Gly Lys Cys Thr Tyr Pro Val Leu Lys Glu Asp Ala Pro Arg Gln His
          20          25          30
Val Glu Thr Phe Phe Gln Glu Glu Leu Thr Arg Ser Gln Glu Gly Met
          35          40          45
Lys Leu Gly Glu Asn Phe Leu Met Phe Ala Met Pro Pro Asp Asp Ser
          50          55          60
Lys Glu Ser Lys Gly Lys Xaa Phe Phe Gln Glu Met Leu Asp Ile Met
          65          70          75          80
Lys Ala Ile Ser Asp Met Met Gly Lys Cys Thr Tyr Pro Val Leu Lys
          85          90          95
Glu Asp Ala Pro Arg Gln His Val Glu Thr Phe Phe Gln Val Gly Ile
          100         105         110
Asn Gln Lys Ser Arg Gly His Glu Val Arg Arg Lys Phe Pro Asp Val
          115         120         125
Cys His Ala Pro Arg
          130         133

```

<210> 1742

<211> 128

<212> PRT

<213> Homo sapiens

<221> misc_feature
 <222> (1)...(126)
 <223> Xaa = any amino acid or nothing

<400> 1742

```

Phe Phe Phe Gly Asp Gly Val Ser Pro Cys Arg Gln Ala Gly Val Xaa
 1           5           10           15
Trp His Asp Leu Asp Ser Leu Gln Asn Leu Pro Pro Gly Phe Lys Arg
      20           25           30
Phe Ser Tyr Leu Ser Leu Pro Ser Ser Trp Asp Tyr Arg His Val Leu
      35           40           45
Pro Arg Gln Ala Asn Phe Cys Ile Phe Met Xaa Arg Arg Gly Phe Thr
      50           55           60
Met Leu Ala Arg Met Val Ser Ile Ser Xaa Pro Arg Asp Leu Pro Ala
      65           70           75           80
Leu Ala Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His His Ala Pro
      85           90           95
Pro Gln Met Asp Phe Thr Phe Ala Leu Leu Cys Phe Ala Leu Lys Gly
      100           105           110
Cys Leu Pro Arg Gln Lys Glu Gly Gly Thr Leu Asn Leu Ile
      115           120           125 126

```

<210> 1743
 <211> 127
 <212> PRT
 <213> Homo sapiens

<221> misc_feature
 <222> (1)...(127)
 <223> Xaa = any amino acid or nothing

<400> 1743

```

Arg Asn Arg Ser Val Val Pro Glu Phe Val Leu Leu Gly Leu Ser Ala
 1           5           10           15
Gly Pro Gln Thr Gln Thr Leu Leu Phe Val Leu Phe Val Val Ile Cys
      20           25           30
Leu Leu Thr Val Met Gly Asn Leu Leu Leu Val Val Ile Asn Ala
      35           40           45
Asp Ser Cys Leu His Thr Pro Met Tyr Phe Phe Leu Gly Gln Leu Ser
      50           55           60
Phe Leu Asp Leu Cys His Ser Ser Val Thr Ala Pro Lys Leu Leu Glu
      65           70           75           80
Asn Leu Leu Ser Glu Lys Lys Thr Ile Ser Val Glu Gly Cys Met Ala
      85           90           95
Xaa Val Phe Phe Val Phe Ala Thr Gly Gly Thr Glu Ser Ser Leu Leu
      100           105           110
Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Arg Thr Arg Gly
      115           120           125 127

```

<210> 1744
 <211> 160
 <212> PRT
 <213> Homo sapiens

<400> 1744

```

Cys Thr Lys Cys Lys Ala Asp Cys Asp Thr Cys Phe Asn Lys Asn Phe
 1           5           10           15

```

```

Cys Thr Lys Cys Lys Ser Gly Phe Tyr Leu His Leu Gly Lys Cys Leu
      20      25      30
Asp Asn Cys Pro Glu Gly Leu Glu Ala Asn Asn His Thr Met Glu Cys
      35      40      45
Val Ser Ile Val His Cys Glu Val Ser Glu Trp Asn Pro Trp Ser Pro
      50      55      60
Cys Thr Lys Lys Gly Lys Thr Cys Gly Phe Lys Arg Gly Thr Glu Thr
      65      70      75      80
Arg Val Arg Glu Ile Ile Gln His Pro Ser Ala Lys Gly Asn Leu Cys
      85      90      95
Pro Pro Thr Asn Glu Thr Arg Lys Cys Thr Val Gln Arg Lys Lys Cys
      100      105      110
Gln Lys Gly Glu Arg Gly Lys Lys Gly Arg Glu Arg Lys Arg Lys Lys
      115      120      125
Pro Asn Lys Gly Glu Ser Lys Glu Ala Ile Pro Asp Ser Lys Ser Leu
      130      135      140
Glu Ser Ser Lys Glu Ile Pro Glu Gln Arg Glu Asn Lys Gln Gln Gln
      145      150      155      160

```

<210> 1745
 <211> 113
 <212> PRT
 <213> Homo sapiens

```

<400> 1745
Arg Val Leu Tyr Val Pro Ser Met Gly Phe Cys Ile Leu Val Ala His
  1      5      10      15
Gly Trp Gln Lys Ile Ser Thr Lys Ser Val Phe Lys Lys Leu Ser Trp
      20      25      30
Ile Cys Leu Ser Met Val Ile Leu Thr His Ser Leu Lys Thr Phe His
      35      40      45
Arg Asn Trp Asp Trp Glu Ser Glu Tyr Thr Leu Phe Met Ser Ala Leu
      50      55      60
Lys Val Asn Lys Asn Asn Ala Lys Leu Trp Asn Asn Val Gly His Ala
      65      70      75      80
Leu Glu Asn Glu Lys Asn Phe Glu Arg Ala Leu Lys Tyr Phe Leu Gln
      85      90      95
Ala Thr His Val Gln Pro Asp Asp Ile Gly Ala His Met Asn Val Gly
      100      105      110
Arg
113

```

<210> 1746
 <211> 57
 <212> PRT
 <213> Homo sapiens

```

<400> 1746
Gly Phe Arg Ala Val Val Met Thr Val Lys Thr Glu Ala Ala Lys Gly
  1      5      10      15
Thr Leu Thr Tyr Ser Arg Met Arg Gly Met Val Ala Ile Leu Ile Ala
      20      25      30
Phe Met Lys Gln Arg Arg Met Gly Leu Asn Asp Phe Ile Gln Lys Ile
      35      40      45
Ala Asn Asn Ser Tyr Ala Cys Lys Gln
      50      55      57

```

<210> 1747
 <211> 130
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(130)
 <223> Xaa = any amino acid or nothing

<400> 1747
 Ala Glu Pro Ala Cys Gly Ala Ser Ser Cys Thr Pro Pro Ser Leu Arg
 1 5 10 15
 Ser Ser Ser Ser Gln Ser Val Gly Pro Leu Arg Pro Gly Arg Pro Leu
 20 25 30
 Trp Ser Glu Ala Cys Ala Phe Leu Xaa Ala Ala Ala Pro Gln Gly Pro
 35 40 45
 Ala Ser Pro Cys Cys Gly Leu Pro Ser Gly Phe Pro Arg Val Trp Ala
 50 55 60
 Gln Cys Cys Pro Pro Gly Gly Ala Leu Arg Phe Pro Glu Gly Leu Gly
 65 70 75 80
 Ser Val Leu Ser Pro Arg Arg Cys Pro Gln Val Ser Arg Gly Ser Gly
 85 90 95
 Leu Ser Ala Val Pro Gln Glu Val Pro Ser Gly Phe Leu Gly Pro Gly
 100 105 110
 Leu Arg Ala Cys Pro Gln Glu Ala Pro Ser Arg Phe Leu Arg Ala Gly
 115 120 125
 Leu Thr
 130

<210> 1748
 <211> 285
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(285)
 <223> Xaa = any amino acid or nothing

<400> 1748
 Lys Gln Arg Arg Trp Gln Asn Ile Gln Arg Lys Gly Pro Lys Arg Tyr
 1 5 10 15
 Ile Val Ile Ala Gly Asn Ser Gln Ser His Gln Pro Met Ile Phe Ser
 20 25 30
 Met Leu Arg Lys Leu Pro Lys Val Thr Cys Arg Asp Val Leu Pro Glu
 35 40 45
 Ile Arg Ala Ile Cys Ile Glu Glu Ile Gly Cys Trp Met Gln Ser Tyr
 50 55 60
 Ser Thr Ser Phe Leu Thr Asp Ser Tyr Leu Lys Tyr Ile Gly Trp Thr
 65 70 75 80
 Leu His Asp Lys His Arg Glu Val Arg Val Lys Cys Val Lys Ala Leu
 85 90 95
 Lys Gly Leu Tyr Gly Asn Arg Asp Leu Thr Ala Arg Leu Glu Leu Phe
 100 105 110
 Thr Gly Arg Phe Lys Asp Trp Met Val Ser Met Ile Val Asp Arg Glu
 115 120 125
 Tyr Ser Val Ala Val Glu Ala Val Arg Leu Leu Ile Leu Ile Leu Lys
 130 135 140

```

Asn Met Glu Gly Val Leu Met Asp Val Asp Cys Glu Ser Val Tyr Pro
145          150          155          160
Ile Val Xaa Ala Ser Asn Xaa Gly Leu Ala Ser Ala Val Gly Glu Phe
          165          170          175
Leu Tyr Trp Lys Leu Phe Tyr Pro Glu Cys Glu Ile Arg Thr Met Gly
          180          185          190
Gly Arg Glu Gln Arg Gln Ser Pro Gly Ala Gln Arg Thr Phe Phe Gln
          195          200          205
Leu Leu Leu Ser Phe Phe Val Glu Ser Lys Ser His Ser Val Thr Gln
          210          215          220
Ala Gly Val Gln Trp Gln Phe Ser Ala His Arg Asp Leu Cys Leu Pro
225          230          235          240
Gly Ser Ser Asn Ser His Val Ser Ala Ser Arg Val Ala Gly Ile Ala
          245          250          255
Gly Ala His Arg His Thr Trp Leu Ile Tyr Val Phe Phe Ser Trp Arg
          260          265          270
Gln Gly Phe Ala Val Leu Ala Gly Leu Val Ser Asn Ser
          275          280          285

```

<210> 1749

<211> 624

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(618)

<223> Xaa = any amino acid or nothing

<400> 1749

```

Leu Arg Ser Tyr Gly Cys Lys Ala Pro Ser Arg Ile Ser His Leu His
1      5      10      15
Lys Phe Leu Phe Leu Leu Leu Pro Ser Leu Leu Met Gly Tyr Ser Glu
20     25     30
Ser Pro Pro Pro Ile Thr Asp Ser Trp Ala Pro Phe Ile Ser Leu Thr
35     40     45
His His Val Leu Ser Gln Ser Gln Ser Pro Leu Ser Ser Asn Cys Trp
50     55     60
Ile Cys Leu Ser Thr His Thr Gln Xaa Phe Thr Ala Leu Pro Ala Asp
65     70     75     80
Leu Leu Thr Trp Thr Gln Ser Asn Val Ser Leu His Ile Ser Tyr Leu
85     90     95
Ala Ile Pro Phe Leu Ala Asp Ser Phe Leu Lys Pro Val Leu Xaa Pro
100    105    110
Gly Asn Ser Ala Lys His Leu Ser Phe Lys Leu Ser Ser Leu Ser Met
115    120    125
Val Ser Gly Arg Ala Val Ala Leu Leu His Leu Ile Ala Ser Gly Leu
130    135    140
Thr Ser Ile Gln Thr Asn Thr Ala Ser Ser Lys Pro Pro Ile Trp Gly
145    150    155    160
Tyr Leu Ser Thr Gln Thr Ser Phe Ile Ser Pro Pro Pro Leu Cys Leu
165    170    175
Ser Arg Thr Tyr Pro Asn Pro Ala His Ala Thr Met Val Gly Gln Val
180    185    190
Pro Gln Ser Leu Cys Gly Leu Ile Phe Thr Leu Arg Thr Pro Cys Arg
195    200    205
Pro Ser Ile Leu His Pro Asn Tyr Lys Ile Ile Ser Thr Ser Ala Trp
210    215    220
Gln Lys Val Leu Cys Phe Ser Gly Ser Pro Thr Ile His Thr Ser Leu
225    230    235    240
His Leu Thr Thr Gly Ser Ser Phe Leu Ser Phe His Pro Ile Pro Gly
245    250    255

```

Phe	Pro	Ala	Ala	Asn	Ser	Ala	Leu	Tyr	Val	Ser	Ser	Leu	Lys	Gly	Pro
			260					265					270		
Pro	Gly	Lys	Asn	Val	Thr	Ile	Pro	Ser	Pro	Val	Thr	Gly	Thr	Xaa	Gln
		275					280					285			
Pro	Pro	His	Arg	Gly	Ser	Asn	Arg	Leu	Thr	Val	Asp	Lys	Asp	Asn	Phe
		290					295				300				
Phe	Leu	Ser	Pro	Lys	Pro	Asn	Ser	Leu	His	Gln	Leu	Pro	Ser	Gln	Thr
305					310					315					320
Pro	Tyr	Gln	Ala	Leu	Thr	Gly	Ala	Ala	Leu	Ala	Gly	Ser	Tyr	Pro	Ile
				325					330					335	
Trp	Glu	Asn	Glu	Asn	Thr	Leu	Ser	Trp	Leu	Pro	Thr	Phe	Thr	Tyr	Asn
			340					345					350		
Phe	Cys	Leu	Ser	Thr	Pro	Ser	Leu	Phe	Phe	Leu	Cys	Asp	Thr	Asn	Xaa
		355					360					365			
Tyr	Leu	Cys	Leu	Pro	Ala	Asn	Trp	Ser	Gly	Thr	Cys	Thr	Leu	Val	Phe
		370				375					380				
Gln	Ala	Pro	Thr	Ile	Asn	Ile	Leu	Pro	Pro	Asn	Gln	Thr	Ile	Leu	Ile
385					390					395					400
Ser	Val	Glu	Ala	Ser	Ile	Ser	Ser	Ser	Pro	Ile	Arg	Asn	Lys	Trp	Ala
				405					410					415	
Leu	His	Leu	Ile	Thr	Leu	Leu	Thr	Gly	Leu	Gly	Ile	Thr	Ala	Ala	Leu
			420					425					430		
Gly	Thr	Gly	Ile	Ala	Gly	Ile	Thr	Thr	Ser	Ile	Thr	Ser	Tyr	Gln	Thr
		435					440					445			
Leu	Phe	Thr	Thr	Leu	Ser	Asn	Thr	Val	Glu	Asp	Met	His	Thr	Ser	Ile
		450				455					460				
Thr	Ser	Leu	Gln	Arg	Gln	Leu	Asp	Phe	Leu	Val	Gly	Val	Ile	Leu	Gln
465					470					475					480
Asn	Trp	Arg	Val	Leu	Asp	Leu	Leu	Thr	Thr	Glu	Lys	Gly	Gly	Thr	Cys
				485					490					495	
Ile	Tyr	Leu	Gln	Glu	Glu	Cys	Cys	Phe	Cys	Val	Asn	Glu	Ser	Gly	Ile
			500					505					510		
Val	His	Ile	Ala	Val	Arg	Arg	Leu	His	Asp	Arg	Ala	Ala	Glu	Leu	Xaa
		515					520					525			
His	Gln	Val	Ala	Asp	Ser	Trp	Trp	Gln	Gly	Ser	Ser	Leu	Leu	Arg	Trp
		530				535					540				
Ile	Pro	Trp	Val	Ala	Pro	Phe	Leu	Gly	Pro	Leu	Ile	Phe	Leu	Phe	Leu
545					550					555					560
Leu	Leu	Met	Ile	Gly	Pro	Cys	Ile	Phe	Asn	Leu	Val	Ser	Arg	Phe	Ile
				565					570					575	
Ser	Gln	Arg	Leu	Asn	Cys	Phe	Ile	Gln	Ala	Ser	Met	Gln	Lys	His	Ile
			580					585					590		
Asp	Asn	Ile	Phe	His	Leu	Cys	His	Val	Xaa	Tyr	Gln	Ser	Leu	Arg	Gly
		595					600					605			
Asn	His</														

```
<210> 1750
<211> 150
<212> PRT
<213> Homo sapiens
```

<400> 1750															
Thr	His	Trp	Arg	His	Ser	Ser	Gly	Val	Pro	Gly	Ser	Thr	Thr	Ala	Arg
1				5					10					15	
Arg	Arg	Arg	Arg	Glu	Leu	Glu	Ile	Ala	Thr	Ser	Asp	Asn	Gln	Glu	Tyr
			20					25					30		
Tyr	Asn	Arg	Leu	Cys	Gln	Glu	Val	Thr	Asn	Arg	Glu	Arg	Asn	Asp	Gln
	35						40					45			
Lys	Met	Leu	Ala	Asp	Leu	Asp	Asp	Leu	Asn	Arg	Thr	Lys	Lys	Tyr	Leu
50					55						60				

Glu Glu Arg Leu Ile Glu Leu Leu Arg Asp Lys Asp Ala Leu Trp Gln
 65 70 75 80
 Lys Ser Asp Ala Leu Glu Phe Gln Gln Lys Leu Ser Ala Glu Glu Arg
 85 90 95
 Trp Leu Gly Asp Thr Glu Ala Asn His Cys Leu Asp Cys Lys Arg Glu
 100 105 110
 Phe Ser Trp Met Val Arg Arg His His Cys Arg Ile Cys Gly Arg Ile
 115 120 125
 Phe Cys Tyr Tyr Cys Cys Asn Asn Tyr Val Leu Ser Lys His Gly Gly
 130 135 140
 Lys Lys Glu Arg Cys Cys
 145 150

<210> 1751
 <211> 209
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(208)
 <223> Xaa = any amino acid or nothing

<400> 1751
 Met Ala Pro Gln His Ser Ser Leu Asp Asp Lys Val Pro Gln Gln Ala
 1 5 10 15
 Ser Thr Val Cys Phe Glu Phe Gln Asp Ile Leu Gln His Ser Gln Cys
 20 25 30
 Thr Glu His Lys Asp Ser Leu Trp Gly Pro Gly Ala Arg Ser Gln Pro
 35 40 45
 Phe Gly Ala His Asn Thr Arg Leu Ser Pro Asp Ser Cys Pro Glu Lys
 50 55 60
 Ile Val Leu Arg Ala Leu Lys Asp Ser Arg Ala Gly Met Pro Glu Gln
 65 70 75 80
 Asp Lys Asp Pro Gly Val Gln Glu Asn Pro Asp Asp Gln Arg Arg Val
 85 90 95
 Pro Gln Gly Thr Gly Asp Ala Pro Ser Ala Phe Arg Pro Leu Trp Asp
 100 105 110
 Asn Gly Gly Leu Ser Pro Phe Val Ser Arg Pro Gly Pro Leu Glu Arg
 115 120 125
 Asp Leu His Ala Gln Arg Ser Glu Val Thr Tyr Asn Gln Arg Ser Gln
 130 135 140
 Ser Ser Trp Met Ser Ser Phe Pro Lys Arg Asn Ala Phe Val Ser Pro
 145 150 155 160
 Tyr Ser Ser Met Gly Gln Ala Gln Pro Gly Leu Pro Lys Thr Asn Pro
 165 170 175
 Ile Gly Glu Ser Cys Cys Trp Glu Gly Leu Ser Leu Ser Thr Gln Ile
 180 185 190
 Leu Gly Xaa Gln Lys Pro Ser Lys Tyr Ile Pro Ser Leu Cys Lys Arg
 195 200 205 208

<210> 1752
 <211> 510
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(499)

<223> Xaa = any amino acid or nothing

<400> 1752

```

Met Glu Leu Pro Ser Gly Pro Gly Pro Glu Arg Leu Phe Asp Ser His
 1          5          10          15
Arg Leu Pro Gly Asp Cys Phe Leu Leu Leu Val Leu Leu Leu Tyr Ala
          20          25          30
Pro Val Gly Phe Cys Leu Leu Val Leu Arg Leu Phe Leu Gly Ile His
          35          40          45
Val Phe Leu Val Ser Cys Ala Leu Pro Asp Ser Val Leu Arg Arg Phe
          50          55          60
Val Val Arg Thr Met Cys Ala Val Leu Gly Leu Val Ala Arg Gln Glu
          65          70          75          80
Asp Ser Gly Leu Arg Asp His Ser Val Arg Val Leu Ile Ser Asn His
          85          90          95
Val Thr Pro Phe Asp His Asn Ile Val Asn Leu Leu Thr Thr Cys Ser
          100          105          110
Thr Val Ser Glu Ser Glu Ala Glu Ser Ala Thr Gly Arg Phe Pro Gly
          115          120          125
Ala Gln Leu Lys Ala Pro Leu Ser Pro Leu Ala Phe Arg Met Glu Asp
          130          135          140
Thr Glu Ala Leu Pro Leu Thr Pro Ile Leu Tyr Pro Thr Cys Gln Phe
          145          150          155          160
Phe Phe Phe Ile Phe Leu Asn Ile Phe Leu Leu Ala Phe Ser Ser Pro
          165          170          175
Gly Ser Gln Pro Leu Leu Asn Ser Pro Pro Ser Phe Val Cys Trp Ser
          180          185          190
Arg Gly Phe Met Glu Met Asn Gly Arg Gly Glu Leu Val Glu Ser Leu
          195          200          205
Lys Arg Phe Cys Ala Ser Thr Arg Leu Pro Pro Thr Pro Leu Leu Leu
          210          215          220
Phe Pro Glu Glu Glu Ala Thr Asn Gly Arg Glu Gly Leu Leu Arg Phe
          225          230          235          240
Ser Ser Trp Pro Phe Ser Ile Gln Asp Val Val Gln Pro Leu Thr Leu
          245          250          255
Gln Val Gln Arg Thr Leu Val Ser Val Thr Val Ser Asp Ala Ser Trp
          260          265          270
Val Ser Glu Leu Leu Trp Ser Leu Phe Val Pro Phe Thr Val Tyr Gln
          275          280          285
Val Arg Trp Leu Arg Pro Val His Arg Gln Leu Gly Glu Ala Asn Glu
          290          295          300
Glu Phe Ala Leu Arg Val Gln Gln Leu Val Ala Lys Glu Leu Gly Gln
          305          310          315          320
Thr Gly Thr Arg Leu Thr Pro Ala Asp Lys Ala Glu His Met Lys Arg
          325          330          335
Gln Arg His Pro Arg Leu Arg Pro Gln Ser Ala Gln Ser Ser Phe Pro
          340          345          350
Pro Ser Pro Trp Val Leu Ser Ser Ser Asp Val Gln Thr Gly Gln Thr
          355          360          365
Leu Gly Phe Arg Glu Phe Lys Glu Ser Phe Cys Pro His Val Ala Ile
          370          375          380
Gly Val Phe Ile Pro Glu Arg Pro Trp Pro Lys Thr Gly Cys Cys Lys
          385          390          395          400
Thr Leu Thr Ile His Leu Ile Leu Leu Xaa Gly Gly Pro Val Ser Phe
          405          410          415
Ser Cys Pro Glu Asp Ile His Pro Arg Gly Thr Xaa Val Pro Thr Gln
          420          425          430
Gln Ala Ser Gly Leu Pro Ser Phe Pro Ser Tyr Gly Pro Ala Arg Gly
          435          440          445
Gly Val Leu Xaa His Pro Ser Ala Gln Gln Pro Leu Thr Phe Ala Lys
          450          455          460
Ser Ser Trp Ala Arg Ala Gly Arg Ala Leu Gln Glu Arg Lys Gln Ala
          465          470          475          480

```

Leu Tyr Glu Tyr Ala Arg Arg Arg Phe Thr Glu Arg Arg Ala Pro Gly
 485 490 495
 Gly Leu Asp
 499

<210> 1753
 <211> 134
 <212> PRT
 <213> Homo sapiens

<400> 1753
 Asp Pro Ser Pro Ser Leu Leu Ala Val Ala Leu Gly Leu Arg Ala Gly
 1 5 10 15
 Glu Arg Thr Arg Ser Gly Pro Gly Ser Ser Ser Pro Ser Gly Gly Ile
 20 25 30
 Ser Gly Gly Ala Ser Ala Gly Leu Ala Ser Ser Pro Glu Cys Ala Cys
 35 40 45
 Gly Arg Ser His Phe Thr Cys Ala Val Ser Ala Leu Gly Glu Cys Thr
 50 55 60
 Cys Ile Pro Ala Gln Trp Gln Cys Asp Gly Asp Asn Asp Cys Gly Asp
 65 70 75 80
 His Ser Asp Glu Asp Gly Cys Ile Leu Pro Thr Cys Ser Pro Leu Asp
 85 90 95
 Phe His Cys Asp Asn Gly Lys Cys Ile Arg Arg Ser Trp Val Cys Asp
 100 105 110
 Ser Asp Asn Asp Cys Glu Asp Asp Ser Asp Glu Gln Asp Cys Pro Pro
 115 120 125
 Arg Glu Cys Glu Glu Asp
 130 134

<210> 1754
 <211> 136
 <212> PRT
 <213> Homo sapiens

<221> misc_feature
 <222> (1)...(136)
 <223> Xaa = any amino acid or nothing

<400> 1754
 Pro Arg His Gly Trp Gly Arg Arg Val Leu Gly Arg Asp Arg Pro Arg
 1 5 10 15
 Leu Gln Lys Val Lys Lys Ser Val Lys Ala Ile Tyr Ile Pro Gly Gln
 20 25 30
 Asp His Val Gln Asn Glu Glu Ile Tyr Ala Arg Val Leu Asp Lys Phe
 35 40 45
 Gly Ser Asn Phe Leu Ser Arg Asp Asn Ala Asp Leu Gly Thr Ala Phe
 50 55 60
 Val Lys Phe Ser Thr Leu Thr Lys Xaa Leu Ser Ala Leu Leu Lys Asn
 65 70 75 80
 Leu Leu Gln Gly Leu Ser Arg Asn Val Ile Phe Thr Leu Asp Ser Leu
 85 90 95
 Leu Lys Gly Asp Leu Lys Gly Val Lys Gly Asp Leu Lys Lys Pro Phe
 100 105 110
 Asp Lys Ala Trp Lys Asp Tyr Glu Thr Lys Phe Ala Lys Ile Glu Lys
 115 120 125
 Glu Lys Arg Glu Arg Glu Trp Arg
 130 135 136

<210> 1755
 <211> 149
 <212> PRT
 <213> Homo sapiens

<400> 1755
 Ala Ala Val Pro Val Glu Asn Pro Trp Asp Asp Pro Arg Val Arg Pro
 1 5 10 15
 Arg Val Arg Ile Phe Thr Trp Glu Asp Cys Ile Ala Gly Gln Ala Lys
 20 25 30
 Val Leu Cys Asn Asp Ser Tyr Gly Val Thr Ile Asp Trp Ser Pro Lys
 35 40 45
 Gly Ala Phe Ile Arg Leu Thr Ser Gln Ser Val Gly Asn Gly His Pro
 50 55 60
 Ala Ser Lys Glu Asn Asp Gln Met Val Asp Thr Ile Lys Asn Thr Thr
 65 70 75 80
 Lys Val Pro Ile Ile Trp Thr Tyr Gly Asp Met Val Glu Pro Arg Pro
 85 90 95
 Gln Met Ile Arg Pro Ala Val Gly Ala Lys His Lys Glu Leu Trp Lys
 100 105 110
 Ile Leu Met Ala Leu Lys Lys Ile Lys Ile Trp Glu Gly Lys Tyr Thr
 115 120 125
 Lys Pro Ser Gln Tyr Asn Pro Asn Tyr Met Leu Glu Leu Ala His Asn
 130 135 140
 Asp Ser Val Trp
 145 148

<210> 1756
 <211> 142
 <212> PRT
 <213> Homo sapiens

<221> misc_feature
 <222> (1)...(141)
 <223> Xaa = any amino acid or nothing

<400> 1756
 Leu Ser Met Leu Ser Thr Ile Ser Thr Glu His Arg Leu Ser Val Leu
 1 5 10 15
 Trp Pro Ile Trp Tyr Cys Cys His Cys Pro Thr His Leu Ser Ala Val
 20 25 30
 Met Cys Val Leu Leu Trp Ala Leu Ser Leu Leu Gln Ser Ile Leu Glu
 35 40 45
 Trp Met Phe Cys Ser Phe Leu Phe Ser Asp Val Asp Ser Asp Asn Trp
 50 55 60
 Cys Gln Ile Leu Asp Phe Leu Thr Ala Val Trp Leu Ile Phe Leu Ile
 65 70 75 80
 Leu Val Leu Cys Gly Phe Thr Leu Val Leu Leu Val Arg Ile Ile Cys
 85 90 95
 Gly Ser Gln Lys Met Pro Leu Thr Arg Leu Tyr Val Thr Ile Leu Leu
 100 105 110
 Thr Gly Leu Val Phe Leu Phe Cys Ser Leu Pro Leu Ser Ile Gln Xaa
 115 120 125
 Phe Leu Leu Tyr Trp Ile Glu Lys Asp Leu Asp Asp Leu
 130 135 140 141

<210> 1757
 <211> 542
 <212> PRT
 <213> Homo sapiens

<400> 1757
 Ser Gly Asp Leu Ser Pro Ala Glu Leu Met Met Leu Thr Ile Gly Asp
 1 5 10 15
 Val Ile Lys Gln Leu Ile Glu Ala His Glu Gln Gly Lys Asp Ile Asp
 20 25 30
 Leu Asn Lys Val Lys Thr Lys Thr Ala Ala Lys Tyr Gly Leu Ser Ala
 35 40 45
 Gln Pro Arg Leu Val Asp Ile Ile Ala Ala Val Pro Pro Gln Tyr Arg
 50 55 60
 Lys Val Leu Met Pro Lys Leu Lys Ala Lys Pro Ile Arg Thr Ala Ser
 65 70 75 80
 Gly Ile Ala Val Val Ala Val Met Cys Lys Pro His Arg Cys Pro His
 85 90 95
 Ile Ser Phe Thr Gly Asn Ile Cys Val Tyr Cys Pro Gly Gly Pro Asp
 100 105 110
 Ser Asp Phe Glu Tyr Ser Thr Gln Ser Tyr Thr Gly Tyr Glu Pro Thr
 115 120 125
 Ser Met Arg Ala Ile Arg Ala Arg Tyr Asp Pro Phe Leu Gln Thr Arg
 130 135 140
 His Arg Ile Glu Gln Leu Lys Gln Leu Gly His Ser Val Asp Lys Val
 145 150 155 160
 Glu Phe Ile Val Met Gly Gly Thr Phe Met Ala Leu Pro Glu Glu Tyr
 165 170 175
 Arg Asp Tyr Phe Ile Arg Asn Leu His Asp Ala Leu Ser Gly His Thr
 180 185 190
 Ser Asn Asn Ile Tyr Glu Ala Val Lys Tyr Ser Glu Arg Ser Leu Thr
 195 200 205
 Lys Cys Ile Gly Ile Thr Ile Glu Thr Arg Pro Asp Tyr Cys Met Lys
 210 215 220
 Arg His Leu Ser Asp Met Leu Thr Tyr Gly Cys Thr Arg Leu Glu Ile
 225 230 235 240
 Gly Val Gln Ser Val Tyr Glu Asp Val Ala Arg Asp Thr Asn Arg Gly
 245 250 255
 His Thr Val Lys Ala Val Cys Glu Ser Phe His Leu Ala Lys Asp Ser
 260 265 270
 Gly Phe Lys Val Val Ala His Met Met Pro Asp Leu Pro Asn Val Gly
 275 280 285
 Leu Glu Arg Asp Ile Glu Gln Phe Thr Glu Phe Phe Glu Asn Pro Ala
 290 295 300
 Phe Arg Pro Asp Gly Leu Lys Leu Tyr Pro Thr Leu Val Ile Arg Gly
 305 310 315 320
 Thr Gly Leu Tyr Glu Leu Trp Lys Ser Gly Arg Tyr Lys Ser Tyr Ser
 325 330 335
 Pro Ser Asp Leu Val Glu Leu Val Ala Arg Ile Leu Ala Leu Val Pro
 340 345 350
 Pro Trp Thr Arg Val Tyr Arg Val Gln Arg Asp Ile Pro Met Pro Leu
 355 360 365
 Val Ser Ser Gly Val Glu His Gly Asn Leu Arg Glu Leu Ala Leu Ala
 370 375 380
 Arg Met Lys Asp Leu Gly Ile Gln Cys Arg Asp Val Arg Thr Arg Glu
 385 390 395 400
 Val Gly Ile Gln Glu Ile His His Lys Val Arg Pro Tyr Gln Val Glu
 405 410 415
 Leu Val Arg Arg Asp Tyr Val Ala Asn Gly Gly Trp Glu Thr Phe Leu
 420 425 430
 Ser Tyr Glu Asp Pro Asp Gln Asp Ile Leu Ile Gly Leu Leu Arg Leu
 435 440 445

```

Arg Lys Cys Ser Glu Glu Thr Phe Arg Phe Glu Leu Gly Gly Gly Val
 450                      455                      460
Ser Ile Val Arg Glu Leu His Val Tyr Gly Ser Val Val Pro Val Ser
465                      470                      475                      480
Ser Arg Asp Pro Thr Lys Phe Gln His Gln Gly Phe Gly Met Leu Leu
                      485                      490                      495
Met Glu Glu Ala Glu Arg Ile Ala Arg Glu Glu His Gly Ser Gly Lys
                      500                      505                      510
Ile Ala Val Ile Ser Gly Val Gly Thr Arg Asn Tyr Tyr Arg Lys Ile
                      515                      520                      525
Gly Tyr Arg Leu Gln Gly Pro Tyr Met Val Lys Met Leu Lys
530                      535                      540                      542

```

```

<210> 1758
<211> 158
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(155)
<223> Xaa = any amino acid or nothing

```

```

<400> 1758
Ala Ile Ala Ser Pro Arg Ala Ala Gly Ile Arg His Glu Leu Thr Ser
 1                      5                      10                      15
Thr Met Ala Ala Gly Lys Asn Lys Arg Leu Thr Lys Gly Gly Lys Lys
                      20                      25                      30
Gly Ala Lys Lys Lys Ala Val Asp Asn Ile Ile Asn Ile Gly Lys Thr
                      35                      40                      45
Leu Val Thr Arg Thr Gln Arg Thr Lys Ile Ala Ser Asp Gly Leu Lys
50                      55                      60
Gly Arg Val Phe Glu Glu Ser Leu Ala Asp Leu Gln Asn Asp Thr Asp
65                      70                      75                      80
Gly Tyr Leu Leu Arg Val Ile Xaa Val Ala Phe Thr Thr Glu Arg Thr
                      85                      90                      95
Asn Gln Ile Arg Glu Val Phe Asn Lys Leu Ile Pro Asp Ser Ile Gly
                      100                      105                      110
Lys Asp Ile Glu Lys Ala Cys Gln Ser Ile Tyr Pro Leu His Asp Asp
115                      120                      125
Phe Ala Arg Lys Val Lys Met Leu Lys Lys Pro Lys Phe Glu Leu Arg
130                      135                      140
Lys Leu Met Glu Leu His Gly Glu Gly Ser Ser
145                      150                      155

```

```

<210> 1759
<211> 417
<212> PRT
<213> Homo sapiens

```

```

<400> 1759
Pro Arg Trp Arg Asn Ser Ala Arg Asp Glu Ile Leu Leu Ser Phe Pro
 1                      5                      10                      15
Gln Asn Tyr Tyr Ile Gln Trp Leu Asn Gly Ser Leu Ile His Gly Leu
                      20                      25                      30
Trp Asn Leu Ala Ser Leu Phe Ser Asn Leu Cys Leu Phe Val Leu Met
                      35                      40                      45
Pro Phe Ala Phe Phe Phe Leu Glu Ser Glu Gly Phe Ala Gly Leu Lys
50                      55                      60

```

```

Lys Gly Ile Arg Ala Arg Ile Leu Glu Thr Leu Gly Met Leu Leu Leu
 65          70          75          80
Leu Ala Leu Leu Ile Leu Gly Ile Val Trp Val Ala Ser Ala Leu Ile
          85          90          95
Asp Asn Asp Ala Ala Ser Met Glu Ser Leu Tyr Asp Leu Trp Glu Phe
 100          105          110
Tyr Leu Pro Tyr Leu Tyr Ser Cys Ile Ser Leu Met Gly Cys Leu Leu
 115          120          125
Leu Leu Leu Cys Thr Pro Val Gly Leu Ser Arg Met Phe Thr Val Met
 130          135          140
Gly Gln Leu Leu Val Lys Pro Thr Ile Leu Glu Asp Leu Asp Glu Gln
 145          150          155          160
Ile Tyr Ile Ile Thr Leu Glu Glu Glu Ala Leu Gln Arg Pro Thr Lys
          165          170          175
Trp Ala Val Phe Ile Arg Trp Lys Tyr Asn Ile Met Glu Leu Glu Gln
          180          185          190
Glu Leu Glu Asn Val Lys Thr Leu Lys Thr Lys Leu Glu Arg Arg Lys
          195          200          205
Lys Ala Ser Ala Trp Glu Arg Asn Leu Val Tyr Pro Ala Val Met Val
 210          215          220
Leu Leu Leu Ile Glu Thr Ser Ile Ser Val Leu Leu Val Ala Cys Asn
 225          230          235          240
Ile Leu Cys Leu Leu Val Asp Glu Thr Ala Met Pro Lys Gly Thr Arg
          245          250          255
Gly Pro Gly Ile Gly Asn Ala Ser Leu Ser Thr Phe Gly Phe Val Gly
 260          265          270
Ala Ala Leu Glu Ile Ile Leu Ile Phe Tyr Leu Met Val Ser Ser Val
 275          280          285
Val Gly Phe Tyr Ser Leu Arg Phe Phe Gly Asn Phe Thr Pro Lys Lys
 290          295          300
Asp Asp Thr Thr Met Thr Lys Ile Ile Gly Asn Cys Val Ser Ile Leu
 305          310          315          320
Val Leu Ser Ser Ala Leu Pro Val Met Ser Arg Thr Leu Gly Ile Thr
          325          330          335
Arg Phe Asp Leu Leu Gly Asp Phe Gly Arg Phe Asn Trp Leu Gly Asn
 340          345          350
Phe Tyr Ile Val Leu Ser Tyr Asn Leu Leu Phe Ala Ile Val Thr Thr
 355          360          365
Leu Cys Leu Val Arg Lys Phe Thr Ser Ala Val Arg Glu Glu Leu Phe
 370          375          380
Lys Ala Leu Gly Leu His Lys Leu His Leu Pro Asn Thr Ser Arg Asp
 385          390          395          400
Ser Glu Thr Ala Lys Pro Ser Val Asn Gly His Gln Lys Ala Leu
          405          410          415

```

<210> 1760

<211> 437

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(435)

<223> Xaa = any amino acid or nothing

<400> 1760

```

Gly Ser His Arg Phe Ser Leu Ala Ser Pro Leu Asp Pro Glu Val Gly
 1          5          10          15
Pro Tyr Cys Asp Thr Pro Thr Met Arg Thr Leu Phe Asn Leu Leu Trp
          20          25          30
Leu Ala Leu Ala Cys Ser Pro Val His Thr Thr Leu Ser Lys Ser Asp
          35          40          45

```

Ala Lys Lys Ala Ala Ser Lys Thr Leu Leu Glu Lys Ser Gln Phe Ser
 50 55 60
 Asp Lys Pro Val Gln Asp Arg Gly Leu Val Val Thr Asp Leu Lys Ala
 65 70 75 80
 Glu Ser Val Val Leu Glu His Arg Ser Tyr Cys Ser Ala Lys Ala Arg
 85 90 95
 Asp Arg His Phe Ala Gly Asp Val Leu Gly Tyr Val Thr Pro Trp Asn
 100 105 110
 Ser His Gly Tyr Asp Val Thr Lys Val Phe Gly Ser Lys Phe Thr Gln
 115 120 125
 Ile Ser Pro Val Trp Leu Gln Leu Lys Arg Arg Gly Arg Glu Met Phe
 130 135 140
 Glu Val Thr Gly Leu His Asp Val Asp Gln Gly Trp Met Arg Ala Val
 145 150 155 160
 Arg Lys His Ala Lys Gly Leu Pro Xaa Cys Leu Gly Ser Cys Leu Arg
 165 170 175
 Thr Gly Leu Thr Met Ile Ser Gly Tyr Val Leu Asp Ser Glu Asp Glu
 180 185 190
 Ile Glu Glu Leu Ser Lys Thr Val Val Gln Val Ala Lys Asn Gln His
 195 200 205
 Phe Asp Gly Phe Val Val Glu Val Trp Asn Gln Leu Leu Ser Gln Lys
 210 215 220
 Arg Val Gly Leu Ile His Met Leu Thr His Leu Ala Glu Ala Leu His
 225 230 235 240
 Gln Ala Arg Leu Leu Ala Leu Leu Val Ile Pro Pro Ala Ile Thr Pro
 245 250 255
 Gly Thr Asp Gln Leu Gly Met Phe Thr His Lys Glu Phe Glu Gln Leu
 260 265 270
 Ala Pro Val Leu Asp Gly Phe Ser Leu Met Thr Tyr Asp Tyr Ser Thr
 275 280 285
 Ala His Gln Pro Gly Pro Asn Ala Pro Leu Ser Trp Val Arg Ala Cys
 290 295 300
 Val Gln Val Leu Asp Pro Lys Ser Lys Trp Arg Ser Lys Ile Leu Leu
 305 310 315 320
 Gly Leu Asn Phe Tyr Gly Met Asp Tyr Ala Thr Ser Lys Asp Ala Arg
 325 330 335
 Glu Pro Val Val Gly Ala Arg Tyr Ile Gln Thr Leu Lys Asp His Arg
 340 345 350
 Pro Arg Met Val Trp Asp Ser Gln Val Ser Glu His Phe Phe Glu Tyr
 355 360 365
 Lys Lys Ser Arg Ser Gly Arg His Val Val Phe Tyr Pro Thr Leu Lys
 370 375 380
 Ser Leu Gln Val Arg Leu Glu Leu Ala Arg Glu Leu Gly Val Gly Val
 385 390 395 400
 Ser Ile Trp Glu Leu Gly Gln Gly Leu Asp Tyr Phe Tyr Asp Leu Leu
 405 410 415
 Xaa Val Gly Ile Ala Ala Ser Ala Val Asp Val Phe Phe Ser Lys Pro
 420 425 430
 Trp Ser Glu
 435

<210> 1761
 <211> 876
 <212> PRT
 <213> Homo sapiens

<400> 1761
 Val Ala Thr Arg Lys Leu Ala Lys Gly Phe Thr Gln Phe Ala Lys Met
 1 5 10 15
 Thr Glu Gly Thr Lys Lys Thr Ser Lys Lys Phe Lys Phe Phe Lys Phe
 20 25 30

Lys Gly Phe Gly Ser Phe Ser Asn Leu Pro Arg Ser Phe Thr Leu Arg
 35 40 45
 Arg Ser Ser Ala Ser Ile Ser Arg Gln Ser His Leu Glu Pro Asp Thr
 50 55 60
 Phe Glu Ala Thr Gln Asp Asp Met Val Thr Val Pro Lys Ser Pro Pro
 65 70 75 80
 Ala Tyr Ala Arg Ser Ser Asp Met Tyr Ser His Met Gly Thr Met Pro
 85 90 95
 Arg Pro Ser Ile Lys Lys Ala Gln Asn Ser Gln Ala Ala Arg Gln Ala
 100 105 110
 Gln Glu Ala Gly Pro Lys Pro Asn Leu Val Pro Gly Gly Val Pro Asp
 115 120 125
 Pro Pro Gly Leu Glu Ala Ala Lys Glu Val Met Val Lys Ala Thr Gly
 130 135 140
 Pro Leu Glu Asp Thr Pro Ala Met Glu Pro Asn Pro Ser Ala Val Glu
 145 150 155 160
 Val Asp Pro Ile Arg Lys Pro Glu Val Pro Thr Gly Asp Val Glu Glu
 165 170 175
 Glu Arg Pro Pro Arg Asp Val His Ser Glu Arg Ala Ala Gly Glu Pro
 180 185 190
 Glu Ala Gly Ser Asp Tyr Val Lys Phe Ser Lys Glu Lys Tyr Ile Leu
 195 200 205
 Asp Ser Ser Pro Glu Lys Leu His Lys Glu Leu Glu Glu Glu Lys
 210 215 220
 Leu Ser Ser Thr Asp Leu Arg Ser His Ala Trp Tyr His Gly Arg Ile
 225 230 235 240
 Pro Arg Glu Val Ser Glu Thr Leu Val Gln Arg Asn Gly Asp Phe Leu
 245 250 255
 Ile Arg Asp Ser Leu Thr Ser Leu Gly Asp Tyr Val Leu Thr Cys Arg
 260 265 270
 Trp Arg Asn Gln Ala Leu His Phe Lys Ile Asn Lys Val Val Val Lys
 275 280 285
 Ala Gly Glu Ser Tyr Thr His Ile Gln Tyr Leu Phe Glu Gln Glu Ser
 290 295 300
 Phe Asp His Val Pro Ala Leu Val Arg Tyr His Val Gly Ser Arg Lys
 305 310 315 320
 Ala Val Ser Glu Gln Ser Gly Ala Ile Ile Tyr Cys Pro Val Asn Arg
 325 330 335
 Thr Phe Pro Leu Arg Tyr Leu Glu Ala Ser Tyr Gly Leu Gly Gln Gly
 340 345 350
 Ser Ser Lys Pro Ala Ser Pro Val Ser Pro Ser Gly Pro Lys Gly Ser
 355 360 365
 His Met Lys Arg Arg Ser Val Thr Met Thr Asp Gly Leu Thr Ala Asp
 370 375 380
 Lys Val Thr Arg Ser Asp Gly Cys Pro Thr Ser Thr Ser Leu Pro Arg
 385 390 395 400
 Pro Arg Asp Ser Ile Arg Ser Cys Ala Leu Ser Met Asp Gln Ile Pro
 405 410 415
 Asp Leu His Ser Pro Met Ser Pro Ile Ser Glu Ser Pro Ser Ser Pro
 420 425 430
 Ala Tyr Ser Thr Val Thr Arg Val His Ala Ala Pro Ala Ala Pro Ser
 435 440 445
 Ala Thr Ala Leu Pro Ala Ser Pro Val Ala Arg Arg Ser Ser Glu Pro
 450 455 460
 Gln Leu Cys Pro Gly Ser Ala Pro Lys Thr His Gly Glu Ser Asp Lys
 465 470 475 480
 Gly Pro His Thr Ser Pro Ser His Thr Leu Gly Lys Ala Ser Pro Ser
 485 490 495
 Pro Ser Leu Ser Ser Tyr Ser Asp Pro Asp Ser Gly His Tyr Cys Gln
 500 505 510
 Leu Gln Pro Pro Val Arg Gly Ser Arg Glu Trp Ala Ala Thr Glu Thr
 515 520 525
 Ser Ser Gln Gln Ala Arg Ser Tyr Gly Glu Arg Leu Lys Glu Leu Ser
 530 535 540

```

Glu Asn Gly Ala Pro Glu Gly Asp Trp Gly Lys Thr Phe Thr Val Pro
545          550          555          560
Ile Val Glu Val Thr Ser Ser Phe Asn Pro Ala Thr Phe Gln Ser Leu
          565          570          575
Leu Ile Pro Arg Asp Asn Arg Pro Leu Glu Val Gly Leu Leu Arg Lys
          580          585          590
Val Lys Glu Leu Leu Ala Glu Val Asp Ala Arg Thr Leu Ala Arg His
          595          600          605
Val Thr Lys Val Asp Cys Leu Val Ala Arg Ile Leu Gly Val Thr Lys
          610          615          620
Glu Met Gln Thr Leu Met Gly Val Arg Trp Gly Met Glu Leu Leu Thr
625          630          635          640
Leu Pro His Gly Arg Lys Leu Arg Leu Asp Leu Leu Glu Arg Phe His
          645          650          655
Thr Met Ser Ile Met Leu Ala Val Asp Ile Leu Gly Cys Thr Gly Ser
          660          665          670
Ala Glu Glu Arg Ala Ala Leu Leu His Lys Thr Ile Gln Leu Ala Ala
          675          680          685
Glu Leu Arg Gly Thr Met Gly Asn Met Phe Ser Phe Ala Ala Val Met
          690          695          700
Gly Ala Leu Asp Met Ala Gln Ile Ser Arg Leu Glu Gln Thr Trp Val
705          710          715          720
Thr Leu Arg Gln Arg His Thr Glu Gly Ala Ile Leu Tyr Glu Lys Lys
          725          730          735
Leu Lys Pro Phe Leu Lys Ser Leu Asn Glu Gly Lys Glu Gly Pro Pro
          740          745          750
Leu Ser Asn Thr Thr Phe Pro His Val Leu Pro Leu Ile Thr Leu Leu
          755          760          765
Glu Cys Asp Ser Ala Pro Pro Glu Gly Pro Glu Pro Trp Gly Ser Thr
          770          775          780
Glu His Gly Val Glu Val Val Leu Ala His Leu Glu Ala Ala Arg Thr
785          790          795          800
Val Ala His His Gly Leu Tyr His Thr Asn Ala Glu Val Lys Leu
          805          810          815
Gln Gly Phe Gln Ala Arg Pro Glu Leu Leu Glu Val Phe Ser Thr Glu
          820          825          830
Phe Gln Met Arg Leu Leu Trp Gly Ser Gln Gly Ala Ser Ser Ser Gln
          835          840          845
Ala Arg Arg Tyr Glu Lys Phe Asp Lys Val Leu Thr Ala Leu Ser His
          850          855          860
Lys Leu Glu Pro Ala Val Arg Ser Ser Glu Leu
865          870          875

```

<210> 1762

<211> 299

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(299)

<223> Xaa = any amino acid or nothing

<400> 1762

```

Ile Asp Arg Ala Ala Glu Cys Arg Thr Lys Pro Leu Pro Met Ala Val
1          5          10          15
Ser Ile Arg Gly Asn Ala Asp Ser Ile Val Ala Cys Leu Val Leu Met
          20          25          30
Val Leu Tyr Leu Ile Lys Lys Arg Leu Val Ala Cys Ala Ala Val Phe
          35          40          45
Tyr Gly Phe Ala Val His Met Lys Ile Tyr Pro Glu Thr Tyr Ile Leu
50          55          60

```

```

Pro Ile Thr Leu His Leu Leu Pro Asp Arg Asp Asn Asp Lys Ser Leu
 65              70              75              80
Arg Gln Phe Arg Tyr Thr Phe Gln Ala Cys Leu Xaa Glu Leu Leu Lys
              85              90              95
Arg Leu Cys Asn Arg Thr Ala Leu Met Phe Val Ala Val Ala Gly Leu
              100            105            110
Thr Phe Phe Ala Leu Ser Phe Gly Phe Tyr Tyr Glu Tyr Gly Trp Glu
              115            120            125
Phe Leu Glu His Thr Tyr Phe Tyr His Leu Thr Arg Arg Asp Ile Arg
              130            135            140
His Asn Phe Ser Pro Tyr Phe Tyr Met Leu Tyr Leu Thr Ala Glu Ser
145              150            155            160
Lys Trp Ser Phe Ser Leu Gly Ile Ala Ala Phe Leu Pro Gln Leu Ile
              165            170            175
Leu Leu Ser Ala Val Ser Phe Ala Tyr Tyr Arg Asp Leu Val Phe Cys
              180            185            190
Trp Phe Leu His Thr Ser Ile Phe Val Thr Phe Asn Lys Val Cys Thr
              195            200            205
Ser Gln Tyr Phe Leu Trp Tyr Leu Cys Leu Leu Pro Leu Val Met Pro
210              215            220
Leu Val Arg Met Pro Trp Lys Arg Ala Val Val Leu Met Leu Trp
225              230            235            240
Phe Ile Gly Gln Ala Met Trp Leu Ala Pro Ala Tyr Val Leu Glu Phe
              245            250            255
Gln Gly Lys Asn Thr Phe Leu Phe Ile Trp Leu Ala Gly Leu Phe Phe
              260            265            270
Leu Leu Ile Asn Cys Ser Ile Leu Ile Gln Ile Ile Ser His Tyr Lys
              275            280            285
Glu Glu Pro Leu Thr Glu Arg Ile Lys Tyr Asp
290              295            299

```

<210> 1763

<211> 158

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(157)

<223> Xaa = any amino acid or nothing

<400> 1763

```

Pro Ile Pro Val Arg Trp Asn Ser Leu Glu Gly Arg Leu Leu Arg Gly
 1              5              10              15
Tyr Glu Gln His Ala Asn Asp Gly Lys Asp Tyr Ile Ser Arg Asn Xaa
              20              25              30
Asp Leu Arg Ser Trp Thr Ala Ala Asp Met Ala Ala Gln Ile Thr Lys
              35              40              45
Arg Lys Trp Glu Ala Glu Glu Phe Ala Glu Gln Ile Lys Ala Tyr Leu
50              55              60
Glu Gly Thr Cys Val Glu Arg Leu Arg Thr His Leu Glu Asn Gly Lys
65              70              75              80
Glu Thr Leu Gln Leu Thr Glu Gln Ser Ser Gln Pro Thr Ile Pro Ile
              85              90              95
Val Gly Ile Val Ala Gly Leu Val Leu Leu Gly Ala Val Val Thr Gly
              100            105            110
Ala Val Val Ser Ala Val Met Cys Arg Lys Lys Asn Ser Gly His Phe
115              120            125
Leu Pro Thr Asp Arg Val Ser Tyr Ser Glu Ala Ala Ser Ser Asp His
130              135            140
Ala Gln Gly Ser Asp Val Ser Leu Thr Ala Cys Lys Val
145              150            155            157

```

<210> 1764
 <211> 346
 <212> PRT
 <213> Homo sapiens

<400> 1764
 His Gln Ile Leu Glu Leu Lys Lys Lys Ile Leu Lys Thr Tyr Asn Pro
 1 5 10 15
 Asp Tyr Asp Glu Asp Leu Val Gln Glu Ala Ser Ser Glu Asp Val Leu
 20 25 30
 Gly Val His Met Val Asp Lys Asp Thr Glu Arg Asp Ile Glu Met Lys
 35 40 45
 Arg Gln Leu Arg Arg Leu Arg Glu Leu His Leu Tyr Ser Thr Trp Lys
 50 55 60
 Lys Tyr Gln Glu Ala Met Lys Thr Ser Leu Gly Val Pro Gln Arg Glu
 65 70 75 80
 Arg Asp Glu Gly Ser Leu Gly Lys Pro Leu Cys Pro Pro Glu Ile Leu
 85 90 95
 Ser Glu Thr Leu Pro Gly Ser Val Lys Arg Val Cys Phe Pro Ser
 100 105 110
 Glu Asp His Leu Glu Glu Phe Ile Ala Glu His Leu Pro Glu Ala Ser
 115 120 125
 Asn Gln Ser Leu Leu Thr Val Ala His Ala Asp Ala Gly Thr Gln Thr
 130 135 140
 Asn Gly Asp Leu Glu Asp Leu Glu Glu His Gly Pro Gly Gln Thr Val
 145 150 155 160
 Ser Glu Glu Ala Thr Glu Val His Met Met Glu Gly Asp Pro Asp Thr
 165 170 175
 Leu Ala Glu Leu Leu Ile Arg Asp Val Leu Gln Glu Leu Ser Ser Tyr
 180 185 190
 Asn Gly Glu Glu Glu Asp Pro Glu Glu Val Lys Thr Ser Leu Gly Val
 195 200 205
 Pro Gln Arg Gly Asp Leu Glu Asp Leu Glu Glu His Val Pro Gly Gln
 210 215 220
 Thr Val Ser Glu Glu Ala Thr Gly Val His Met Met Gln Val Asp Pro
 225 230 235 240
 Ala Thr Leu Ala Lys Ser Asp Leu Glu Asp Leu Glu Glu His Val Pro
 245 250 255
 Glu Gln Thr Val Ser Glu Glu Ala Thr Gly Val His Met Met Gln Val
 260 265 270
 Asp Pro Ala Thr Leu Ala Lys Gln Leu Glu Asp Ser Thr Ile Thr Gly
 275 280 285
 Ser His Gln Gln Met Ser Ala Ser Pro Ser Ser Ala Pro Ala Glu Glu
 290 295 300
 Ala Thr Glu Lys Thr Lys Val Glu Glu Glu Val Lys Thr Arg Lys Pro
 305 310 315 320
 Lys Lys Lys Thr Arg Lys Pro Ser Lys Lys Ser Arg Trp Asn Val Leu
 325 330 335
 Lys Cys Trp Asp Ile Phe Asn Ile Phe
 340 345

<210> 1765
 <211> 39
 <212> PRT
 <213> Homo sapiens

<221> misc_feature
 <222> (1)...(39)

<223> Xaa = any amino acid or nothing

<400> 1765

```

Ile Pro Trp Ser Trp Val Gly Arg Leu Ser Val Arg Lys Met Ser Ile
 1           5           10           15
Leu Phe Xaa Leu Thr Tyr Asn Tyr Asn Ala Ile Leu Asn Lys Thr Pro
      20           25           30
Pro Ser Phe Ser Pro Ser Leu
      35           39

```

<210> 1766

<211> 204

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(203)

<223> Xaa = any amino acid or nothing

<400> 1766

```

Arg Gln Glu Lys Met Gly Leu Gly Glu Ile Gly Ala Ser Gly Val Leu
 1           5           10           15
Arg Ser Met Leu Lys Glu Arg Lys Lys Gln Asn Met Lys Gly Asn Gly
      20           25           30
Asn Val Thr Leu Thr Pro Leu Leu Pro Ala Val Gln Cys Gly Cys His
      35           40           45
Leu Gln Pro Ala Gly Arg Ser Pro Leu Pro Ser Ser His Ser Ala Pro
      50           55           60
Gly Leu Cys Ser Pro Leu His Pro Leu Gln Pro Gln Gln Glu Ala Ser
      65           70           75           80
Thr Cys Pro Ser Gly Thr Leu Gln Gly Arg Glu Lys Ala Ala Pro Gly
      85           90           95
Gln Gly Arg Pro Leu Cys Ser Leu Trp Ala Gly Gly Ala Gly Ala Pro
      100          105          110
Gly Glu Arg Gly Ala Glu Gly Arg Gly Pro Ser Asp Gln Ala Pro Asp
      115          120          125
Pro Lys Ser Gly Pro Trp Leu Phe Pro Pro Gly Leu Gly Ala Pro Ala
      130          135          140
Glu Val Arg Leu His Asn Val Pro His Asn Leu Arg Arg Pro Pro Leu
      145          150          155          160
Pro Xaa Ala Arg Gly Lys Xaa Pro Pro Asn Ser Gly Cys Pro Trp Ser
      165          170          175
Glu Gly Arg Ala Lys Gln Pro Leu Ser Cys Gly Pro Lys Pro Gln Cys
      180          185          190
Ser Leu Pro Ser Gln Val Pro Gly Asp Thr His
      195          200          203

```

<210> 1767

<211> 696

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(686)

<223> Xaa = any amino acid or nothing

<400> 1767

Glu Ala Gln Asp Pro Arg Ala Cys Gly Pro Asp Ala Gly Gly Arg Phe
 1 5 10 15
 Ala Ala Arg Asp Ala Pro Gly Asn Ser Leu Arg Pro Pro Pro Ser Ser
 20 25 30
 Pro Pro Gly Trp Pro Gly Gln Leu Arg Leu Leu Pro Arg Val Pro Gly
 35 40 45
 Ser Glu Leu Arg Cys Gly Lys Pro Glu Arg Gly Arg Leu Pro Ala Ser
 50 55 60
 Pro Pro Gly Lys Ile Arg Gly Trp Pro Pro Gly Ile Ser Lys Arg Pro
 65 70 75 80
 Gly Leu Gly Gly Arg Ser Phe Pro Pro Gly Phe Ala Pro Arg Thr Trp
 85 90 95
 Arg Pro Glu Ala Arg Gly Pro Ser Val Gln Ser Leu Pro Pro Ile Phe
 100 105 110
 Ser Pro Gln Ser Ala Gln Thr Thr Ala Arg Xaa Arg Pro Gly Ala Pro
 115 120 125
 Lys Asn Ala Gly Arg Cys Gly Gly Ala Arg Gly Pro Arg Leu Ser Leu
 130 135 140
 Gly Pro Pro Pro Gly Pro Pro Pro Ala Pro Ala Leu Pro Ala Arg Ala
 145 150 155 160
 Ser Ala Gly Ala Gly Ala Ala Ala Ala Leu Ala Val Gly Gly Val
 165 170 175
 Arg Gly Ala Gly Gly Ala Arg Gly Thr Gly Gly Tyr Gly His Cys Ser
 180 185 190
 Gly Arg Pro Thr Gly Arg Thr Gly Pro Gly Pro Gln Gly Pro Gly Pro
 195 200 205
 Pro Met Pro Ala Arg Pro Arg Xaa Ala Ser Ser Thr Arg Gly Ser Arg
 210 215 220
 Arg Gly Pro Gly Ser Arg Pro Ala Arg Ala Ala Ala Pro Arg Ala
 225 230 235 240
 Gly Asp His Gly Arg Arg Pro Val Arg Val His Leu Arg Gln His Thr
 245 250 255
 Ala Val Xaa Glu Pro Arg Leu Gly Asp Ala Thr Ala Pro Pro Gly Gly
 260 265 270
 Ala Ala Gly Pro Gly Ala Pro Ala Pro Arg Gly Pro Gly Trp Asp Cys
 275 280 285
 Ala Leu Leu Pro Ser Pro Gly Pro Arg Ser Pro Arg Ala Val Gly Cys
 290 295 300
 Ala Glu Pro Glu Ile Trp Asp Pro Ser Pro Arg Arg Gly Thr Ser Pro
 305 310 315 320
 Val Pro Ser Val Arg Ser Leu Arg Ser Glu Pro Ala Asn Pro Arg Leu
 325 330 335
 Gly Leu Pro Ala Leu Leu Asn Ser Tyr Pro Leu Lys Gly Pro Gly Leu
 340 345 350
 Pro Pro Pro Trp Gly Pro Arg Thr Gln Thr Gly His Val Ile Ile Thr
 355 360 365
 Val Gln Pro Ser Gly Ser Cys Ile Glu His Ser Lys Ser Leu Asp Arg
 370 375 380
 Gly Pro Trp Gly Ala Pro Pro Trp Gly Pro Ser Ser Ser Gly Leu Cys
 385 390 395 400
 Ser Pro Lys Leu Ala Thr Ala Gly Pro Pro Gln Ser Trp Gly Leu Cys
 405 410 415
 Gln Ile Gly Arg Arg Arg Gly Leu Gly Gly Pro Gly Leu Lys Arg Gly
 420 425 430
 Glu Thr Gly Leu Leu Xaa Gly Cys Ser Met Asp His Ala Asn Arg Thr
 435 440 445
 Lys Gly Pro Gly Val Pro Thr Ser Asn Arg Cys Phe Ser His Ile Pro
 450 455 460
 Gly Gly Asp Gly Cys Ser Asp His Ser Ser Cys Glu Gly His Pro Asp
 465 470 475 480
 Leu His Ala Gly Arg Glu Met Pro Ala Ala Pro Gly Leu Ser Glu Leu
 485 490 495
 Glu Arg Val Arg Phe Thr Val Gly Cys Gly Gly Leu Ala Ser Gly Ile
 500 505 510

```

Ser Ser Ala Ser Val Ser Gly Leu Ser Pro Asn Arg Ala Gly Gly Pro
515 520 525
Gly Gln Gly Asp Trp Glu Met Tyr Pro Val Ser Trp Gln Thr Gln Glu
530 535 540
Ser Gly Gly Gln Gly Ser Pro Lys Thr Gly Arg Xaa Val Gly Met Leu
545 550 555 560
Gln Ala Gly Ala Gly Ser Leu Gln Gly Gly Thr Gly Asp Gly Val Trp
565 570 575
Gly Leu Trp Glu Asp Gly Pro Arg Gly Xaa Asp Ser Pro Leu Pro Ser
580 585 590
Gly Thr Gly Thr Glu Pro Xaa Thr Pro Thr Thr Ser Ile Pro Phe Phe
595 600 605
Pro Gln Pro Ser Gly Val Tyr Pro Ser Arg Ala Thr Leu Leu Pro Met
610 615 620
Pro Ser Tyr Xaa Ala Leu Gly Pro Ser Ala Asn Lys Ser Glu Lys Pro
625 630 635 640
Leu Leu Ser Phe Leu Tyr Arg Gly Leu Cys Cys Arg Ile Ser Leu Gln
645 650 655
Leu Ala Lys Gly Ile Gly Gln Leu Ser Glu Ile Pro Leu Leu Asn Val
660 665 670
Glu Thr Ala Phe Trp Ser Met Trp Val Thr Tyr Phe Arg Lys
675 680 685 686

```

<210> 1768

<211> 606

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(606)

<223> Xaa = any amino acid or nothing

<400> 1768

```

Glu Glu Glu Glu Glu Glu Asp Glu Asp Asp Asp Asp Asn Asn Glu
1 5 10 15
Glu Glu Glu Phe Glu Cys Tyr Pro Pro Gly Met Lys Val Gln Val Arg
20 25 30
Tyr Gly Arg Gly Lys Asn Gln Lys Met Tyr Glu Ala Ser Ile Lys Asp
35 40 45
Ser Asp Val Glu Gly Gly Glu Val Leu Tyr Leu Val His Tyr Cys Gly
50 55 60
Trp Asn Val Arg Tyr Asp Glu Trp Ile Lys Ala Asp Lys Ile Val Arg
65 70 75 80
Pro Ala Asp Lys Asn Val Pro Lys Ile Lys His Arg Lys Lys Ile Lys
85 90 95
Asn Lys Leu Asp Lys Glu Lys Asp Lys Asp Glu Lys Tyr Ser Pro Lys
100 105 110
Asn Cys Lys Pro Pro Ala Leu Gly Pro Asn Pro Pro Phe Gln Thr Asn
115 120 125
Pro Ile Ser Trp Lys Trp Tyr Pro Lys Leu Asp Leu Thr Asp Ala Lys
130 135 140
Asn Ser Asp Thr Ala His Ile Lys Ser Ile Glu Ile Thr Ser Ile Leu
145 150 155 160
Asn Gly Leu Gln Ala Ser Glu Ser Ser Ala Glu Asp Ser Glu Gln Glu
165 170 175
Asp Glu Arg Gly Ala Gln Asp Met Asp Asn Asn Gly Lys Glu Glu Ser
180 185 190
Lys Ile Asp His Leu Thr Asn Asn Arg Asn Asp Leu Ile Ser Lys Glu
195 200 205
Glu Gln Asn Ser Ser Ser Leu Leu Glu Glu Asn Lys Val His Ala Asp
210 215 220

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Leu Val Ile Ser Lys Pro Val Ser Lys Ser Pro Glu Arg Leu Arg Lys
225          230          235          240
Asp Ile Glu Val Leu Ser Glu Asp Thr Asp Tyr Glu Glu Asp Glu Val
          245          250          255
Thr Lys Lys Arg Lys Asp Val Lys Lys Asp Thr Thr Asp Lys Ser Ser
          260          265          270
Lys Pro Gln Ile Lys Arg Gly Lys Arg Arg Tyr Cys Asn Thr Glu Glu
          275          280          285
Cys Leu Lys Thr Gly Ser Pro Gly Lys Lys Glu Glu Lys Ala Lys Asn
          290          295          300
Lys Glu Ser Leu Cys Met Glu Asn Ser Ser Asn Ser Ser Ser Asp Glu
305          310          315          320
Asp Glu Glu Glu Thr Lys Ala Lys Met Thr Pro Thr Lys Lys Tyr Asn
          325          330          335
Gly Leu Glu Glu Lys Arg Lys Ser Leu Arg Thr Thr Gly Phe Tyr Ser
          340          345          350
Gly Phe Ser Glu Val Ala Glu Lys Arg Ile Lys Leu Leu Asn Asn Ser
          355          360          365
Asp Glu Arg Leu Gln Asn Ser Arg Ala Lys Asp Arg Lys Asp Val Trp
          370          375          380
Ser Ser Ile Gln Gly Gln Trp Pro Lys Lys Thr Leu Lys Glu Leu Phe
385          390          395          400
Ser Asp Ser Asp Thr Glu Ala Ala Ala Ser Pro Pro His Pro Ala Pro
          405          410          415
Glu Glu Gly Val Ala Glu Glu Ser Leu Gln Thr Val Ala Glu Glu Glu
          420          425          430
Ser Cys Ser Pro Ser Val Glu Leu Glu Lys Pro Pro Pro Val Asn Val
          435          440          445
Asp Ser Lys Pro Ile Glu Glu Lys Thr Val Glu Val Asn Asp Arg Lys
          450          455          460
Ala Glu Phe Pro Ser Ser Gly Ser Asn Phe Ser Ala Xaa Ile Pro Leu
465          470          475          480
Pro Tyr Leu His Leu Asn Arg Leu His Gln Ser Leu Xaa Gln Lys Gly
          485          490          495
Ser Arg Gln Gln Ser Ser Val Thr Val Ser Glu Pro Leu Ala Pro Asn
          500          505          510
Gln Glu Glu Val Arg Ser Ile Lys Ser Glu Thr Asp Ser Thr Ile Glu
          515          520          525
Val Asp Ser Val Ala Gly Glu Leu Gln Asp Leu Gln Ser Glu Arg Glu
          530          535          540
Xaa Leu Ala Ser Arg Phe Xaa Cys Gln Cys Glu Leu Lys Gln Xaa Xaa
545          550          555          560
Ser Ala Arg Thr Arg Thr Ser Xaa Lys Ser Leu Tyr Arg Ser Glu Lys
          565          570          575
Ser Glu Arg Cys Ser Gly Arg Arg Lys Phe Ile Lys Lys Ala Glu Lys
          580          585          590
Lys Pro Xaa Ser Asn Ser Gly Lys Gln Gln Lys Glu Gly Lys
          595          600          605 606

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<210> 1769
 <211> 86
 <212> PRT
 <213> Homo sapiens

<400> 1769
 Gln Arg Glu Cys Leu Ser Ile His Ile Gly Gln Ala Gly Ile Gln Ile
 1 5 10 15
 Gly Asp Ala Cys Trp Glu Leu Tyr Cys Leu Glu His Gly Ile Gln Pro
 20 25 30
 Asn Gly Val Val Leu Asp Thr Gln Gln Asp Gln Leu Glu Asn Ala Lys
 35 40 45


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Met Glu His Thr Asn Ala Ser Phe Asp Thr Phe Phe Cys Glu Thr Arg
  50          55          60
Ala Gly Lys His Val Pro Arg Ala Leu Phe Val Asp Leu Glu Pro Thr
  65          70          75          80
Val Ile Asp Gly Ile Arg
          85  86

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<210> 1770
<211> 109
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(108)
<223> Xaa = any amino acid or nothing

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```

<400> 1770
Arg Arg Leu Ser Phe Phe Phe Xaa Ile Trp Ser Ser Val Leu Val Thr
  1          5          10          15
Gln Ala Arg Val Gln Trp Arg Asp Leu Gly Ser Pro Gln Pro Leu Pro
  20          25          30
Pro Gly Phe Lys Arg Phe Ser Cys Leu Ser Leu Pro Ser Ser Trp Asp
  35          40          45
Tyr Arg His Pro Ser Pro Arg Pro Val Asn Phe His Val Phe Leu Val
  50          55          60
Val Met Gly Phe His His Val Gly Gln Ala Gly Leu Glu Leu Leu Thr
  65          70          75          80
Ser Gly Asp Leu Pro Ala Leu Ala Ser Gln Ser Ala Arg Ile Thr Gly
          85          90          95
Val Asn His Cys Ala Gln Pro Arg Gly His Phe His
          100          105          108

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<210> 1771
<211> 324
<212> PRT
<213> Homo sapiens

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<400> 1771
Ala Asp Ser Asn Leu Ile Glu Ser Cys Trp Gln Glu Leu Gly Leu Gly
  1          5          10          15
Pro Trp Gly Gly Asp Trp Arg Val Glu Gln Val Gly Ala Ser Ala Ser
  20          25          30
Leu Arg Phe Pro Arg Glu Val Cys Ser Ile Arg Phe Leu Phe Thr Ala
  35          40          45
Val Ser Leu Leu Ser Leu Phe Leu Ser Ala Phe Trp Leu Gly Leu Leu
  50          55          60
Tyr Leu Val Ser Pro Leu Glu Asn Glu Pro Lys Glu Met Leu Thr Leu
  65          70          75          80
Ser Glu Tyr His Glu Arg Val Arg Ser Gln Gly Gln Gln Leu Gln Gln
          85          90          95
Leu Gln Ala Glu Leu Asp Lys Leu His Lys Glu Val Ser Thr Val Arg
          100          105          110
Ala Ala Asn Ser Glu Arg Val Ala Lys Leu Val Phe Gln Arg Leu Asn
          115          120          125
Glu Asp Phe Val Arg Lys Pro Asp Tyr Ala Leu Ser Ser Val Gly Ala
          130          135          140
Ser Ile Asp Leu Gln Lys Thr Ser His Asp Tyr Ala Asp Arg Asn Thr
          145          150          155          160

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Ala Tyr Phe Trp Asn Arg Phe Ser Phe Trp Asn Tyr Ala Arg Pro Pro
      165      170      175
Thr Val Ile Leu Glu Pro His Val Phe Pro Gly Asn Cys Trp Ala Phe
      180      185      190
Glu Gly Asp Gln Gly Gln Val Val Ile Gln Leu Pro Gly Arg Val Gln
      195      200      205
Leu Ser Asp Ile Thr Leu Gln His Pro Pro Pro Ser Val Glu His Thr
      210      215      220
Gly Gly Ala Asn Ser Ala Pro Arg Asp Phe Ala Val Phe Phe Leu Leu
      225      230      235      240
Ser Phe Phe Thr His Gln Gly Leu Gln Val Tyr Asp Glu Thr Glu Val
      245      250      255
Ser Leu Gly Lys Phe Thr Phe Asp Val Glu Lys Ser Glu Ile Gln Thr
      260      265      270
Phe His Leu Gln Asn Asp Pro Pro Ala Ala Phe Pro Lys Val Lys Ile
      275      280      285
Gln Ile Leu Ser Asn Trp Gly His Pro Arg Phe Thr Cys Leu Tyr Arg
      290      295      300
Val Arg Ala His Gly Val Arg Thr Ser Glu Gly Ala Glu Gly Ser Ala
      305      310      315      320
Gln Gly Pro His
      324

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<210> 1772
<211> 144
<212> PRT
<213> Homo sapiens

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<221> misc_feature
<222> (1)...(141)
<223> Xaa = any amino acid or nothing

```

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<400> 1772
Glu Phe Asp Ala Gln Pro Ser Ile Gly Ala Leu Val Val Phe Lys Arg
 1      5      10      15
Pro Xaa Ala Thr Thr Gly Ser Asp Pro Gly Pro Lys Arg Gly Met Asn
      20      25      30
Tyr Leu Val Ser Cys Ser Met Arg Ser Pro Glu Ser Gly Lys Gly Glu
      35      40      45
Pro Gly Thr Ala Arg Asp Tyr Thr Pro Met Gly Arg Pro Pro Pro Pro
      50      55      60
Val Pro Ser Val Ser Pro Gly Pro Leu Pro Gly Ser Leu Ala Ile Ala
      65      70      75      80
Pro His Ser Pro Glu Pro His Pro Trp Glu Gln Gln Pro Pro Arg Gly
      85      90      95
Gln Ala Arg Ser Pro Pro Gly Gly Trp Leu Gly Ser Ala Thr Arg Val
      100      105      110
Arg Arg Pro His Asn His Pro Arg Gly His His Ser Pro Val Asp Thr
      115      120      125
Ala Gly Ala Pro Ala Ser Pro Gly Pro Asp Val Cys Glu
      130      135      140      141

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<210> 1773
<211> 206
<212> PRT
<213> Homo sapiens

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<400> 1773

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```

Asp Ala Gln Arg Ala Ile Tyr Ser Ser Val Gly Pro Ala Val Ser Leu
 1           5           10           15
Arg Gln Arg Gln Gln Asp Gly Ala Val Lys Glu Ser Gly Arg Arg Gly
 20           25           30
Gly Val Arg Ser Phe Ser Arg Ala Ala Ala Met Ala Pro Ile Lys
 35           40           45
Val Gly Asp Ala Ile Pro Ala Val Glu Val Phe Glu Gly Glu Pro Gly
 50           55           60
Asn Lys Val Asn Leu Ala Glu Leu Phe Lys Gly Lys Lys Gly Val Leu
 65           70           75           80
Phe Gly Val Pro Gly Ala Phe Thr Pro Gly Cys Ser Lys Thr His Leu
 85           90           95
Pro Gly Phe Val Glu Gln Ala Glu Ala Leu Lys Ala Lys Gly Val Gln
100           105           110
Val Val Ala Cys Leu Ser Val Asn Asp Ala Phe Val Thr Gly Glu Trp
115           120           125
Gly Arg Ala His Lys Ala Glu Gly Lys Val Arg Leu Leu Ala Asp Pro
130           135           140
Thr Gly Ala Phe Gly Lys Glu Thr Asp Leu Leu Leu Asp Asp Ser Leu
145           150           155           160
Val Ser Ile Phe Gly Asn Arg Arg Leu Lys Arg Phe Ser Met Val Val
165           170           175
Gln Asp Gly Ile Val Lys Ala Leu Asn Val Glu Pro Asp Gly Thr Gly
180           185           190
Leu Thr Cys Ser Leu Ala Pro Asn Ile Ile Ser Gln Leu
195           200           205

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<210> 1774

<211> 2565

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(2560)

<223> Xaa = any amino acid or nothing

<400> 1774

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Arg Gln Val Thr Arg Val Gly Thr Arg Val Leu Gly Ser Thr Thr Ala
 1           5           10           15
Ala Val Phe Leu Ser Val Glu Asp Asp Asn Asp Asn Ala Pro Gln Phe
 20           25           30
Ser Glu Lys Arg Tyr Val Val Gln Val Arg Glu Asp Val Thr Pro Gly
 35           40           45
Ala Pro Val Leu Arg Val Thr Ala Ser Asp Arg Asp Lys Gly Ser Asn
 50           55           60
Ala Val Val His Tyr Ser Ile Met Ser Gly Asn Ala Arg Gly Gln Phe
 65           70           75           80
Tyr Leu Asp Ala Gln Thr Gly Ala Leu Asp Val Val Ser Pro Leu Asp
 85           90           95
Tyr Glu Thr Thr Lys Glu Tyr Thr Leu Arg Val Arg Ala Gln Asp Gly
100           105           110
Gly Arg Pro Pro Leu Ser Asn Val Ser Gly Leu Val Thr Val Gln Val
115           120           125
Leu Asp Ile Asn Asp Asn Ala Pro Ile Phe Val Ser Thr Pro Phe Gln
130           135           140
Ala Thr Val Leu Glu Ser Val Pro Leu Gly Tyr Leu Val Leu His Val
145           150           155           160
Gln Ala Ile Asp Ala Asp Ala Gly Asp Asn Ala Arg Leu Glu Tyr Arg
165           170           175
Leu Ala Gly Val Gly His Asp Phe Pro Phe Thr Ile Asn Asn Gly Thr
180           185           190

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Gly Trp Ile Ser Val Ala Ala Glu Leu Asp Arg Glu Glu Val Asp Phe
 195 200 205
 Tyr Ser Phe Gly Val Glu Ala Arg Asp His Gly Thr Pro Ala Leu Thr
 210 215 220
 Ala Ser Ala Ser Val Ser Val Thr Ala Leu Asp Val Asn Asp Asn Asn
 225 230 235 240
 Pro Thr Phe Thr Gln Pro Glu Tyr Thr Val Arg Leu Asn Glu Asp Ala
 245 250 255
 Ala Val Gly Thr Ser Val Val Thr Val Ser Ala Val Asp Arg Asp Ala
 260 265 270
 His Ser Val Ile Thr Tyr Gln Ile Thr Ser Gly Asn Thr Arg Asn Arg
 275 280 285
 Phe Ser Ile Thr Ser Gln Ser Gly Gly Leu Val Ser Leu Ala Leu
 290 295 300
 Pro Leu Asp Tyr Lys Leu Glu Arg Gln Tyr Val Leu Ala Val Thr Ala
 305 310 315 320
 Ser Asp Gly Thr Arg Gln Asp Thr Ala Gln Ile Val Val Asn Val Thr
 325 330 335
 Asp Ala Asn Thr His Arg Pro Val Phe Gln Ser Ser His Tyr Thr Val
 340 345 350
 Asn Val Asn Glu Asp Arg Pro Ala Gly Thr Thr Val Val Leu Ile Ser
 355 360 365
 Ala Thr Asp Glu Asp Thr Gly Glu Asn Ala Arg Ile Thr Tyr Phe Met
 370 375 380
 Glu Asp Ser Ile Pro Gln Phe Arg Ile Asp Ala Asp Thr Gly Ala Val
 385 390 395 400
 Thr Thr Gln Ala Glu Leu Asp Tyr Glu Asp Gln Val Ser Tyr Thr Leu
 405 410 415
 Ala Ile Thr Ala Arg Asp Asn Gly Ile Pro Gln Lys Ser Asp Thr Thr
 420 425 430
 Tyr Leu Glu Ile Leu Val Asn Asp Val Asn Asp Asn Ala Pro Gln Phe
 435 440 445
 Leu Arg Asp Ser Tyr Gln Gly Ser Val Tyr Glu Asp Val Pro Pro Phe
 450 455 460
 Thr Ser Val Leu Gln Ile Ser Ala Thr Asp Arg Asp Ser Gly Leu Asn
 465 470 475 480
 Gly Arg Val Phe Tyr Thr Phe Gln Gly Gly Asp Asp Gly Asp Gly Asp
 485 490 495
 Phe Ile Val Glu Ser Thr Ser Gly Ile Val Arg Thr Leu Arg Arg Leu
 500 505 510
 Asp Arg Glu Asn Val Ala Gln Tyr Val Leu Arg Ala Tyr Ala Val Asp
 515 520 525
 Lys Gly Met Pro Pro Ala Arg Thr Pro Met Glu Val Thr Val Thr Val
 530 535 540
 Leu Asp Val Asn Asp Asn Pro Pro Val Phe Glu Gln Asp Glu Phe Asp
 545 550 555 560
 Val Phe Val Glu Glu Asn Ser Pro Ile Gly Leu Ala Val Ala Arg Val
 565 570 575
 Thr Ala Thr Asp Pro Asp Glu Gly Thr Asn Ala Gln Ile Met Tyr Gln
 580 585 590
 Ile Val Glu Gly Asn Ile Pro Glu Val Phe Gln Leu Asp Ile Phe Ser
 595 600 605
 Gly Glu Leu Thr Ala Leu Val Asp Leu Asp Tyr Glu Asp Arg Pro Glu
 610 615 620
 Tyr Val Leu Val Ile Gln Ala Thr Ser Ala Pro Leu Val Ser Arg Ala
 625 630 635 640
 Thr Val His Val Arg Leu Leu Asp Arg Asn Asp Asn Pro Pro Val Leu
 645 650 655
 Gly Asn Phe Glu Ile Leu Phe Asn Asn Tyr Val Thr Asn Arg Ser Ser
 660 665 670
 Ser Phe Pro Gly Gly Ala Ile Gly Arg Val Pro Ala His Asp Pro Asp
 675 680 685
 Ile Ser Asp Ser Leu Thr Tyr Ser Phe Glu Arg Gly Asn Glu Leu Ser
 690 695 700

Leu Val Leu Leu Asn Ala Ser Thr Gly Glu Leu Lys Leu Ser Arg Ala
 705 710 715 720
 Leu Asp Asn Asn Arg Pro Leu Glu Ala Ile Met Ser Val Leu Val Ser
 725 730 735
 Asp Gly Val His Ser Val Thr Ala Gln Cys Ala Leu Arg Val Thr Ile
 740 745 750
 Ile Thr Asp Glu Met Leu Thr His Ser Ile Thr Leu Arg Leu Glu Asp
 755 760 765
 Met Ser Pro Glu Arg Phe Leu Ser Pro Leu Leu Gly Leu Phe Ile Gln
 770 775 780
 Ala Val Ala Ala Thr Leu Ala Thr Pro Pro Asp His Val Val Val Phe
 785 790 795 800
 Asn Val Gln Arg Asp Thr Asp Ala Pro Gly Gly His Ile Leu Asn Val
 805 810 815
 Ser Leu Ser Val Gly Gln Pro Pro Gly Pro Gly Gly Gly Pro Pro Phe
 820 825 830
 Leu Pro Ser Glu Asp Leu Gln Glu Arg Leu Tyr Leu Asn Arg Ser Leu
 835 840 845
 Leu Thr Ala Ile Ser Ala Gln Arg Val Leu Pro Phe Asp Asp Asn Ile
 850 855 860
 Cys Leu Arg Glu Pro Cys Glu Asn Tyr Met Arg Cys Val Ser Val Leu
 865 870 875 880
 Arg Phe Asp Ser Ser Ala Pro Phe Ile Ala Ser Ser Ser Val Leu Phe
 885 890 895
 Arg Pro Ile His Pro Val Gly Gly Leu Arg Cys Arg Cys Pro Pro Gly
 900 905 910
 Phe Thr Gly Asp Tyr Cys Glu Thr Glu Val Asp Leu Cys Tyr Ser Arg
 915 920 925
 Pro Cys Gly Pro His Gly Arg Cys Arg Ser Arg Glu Gly Gly Tyr Thr
 930 935 940
 Cys Leu Cys Arg Asp Gly Tyr Thr Gly Glu His Cys Glu Val Ser Ala
 945 950 955 960
 Arg Ser Gly Arg Cys Thr Pro Gly Val Cys Lys Asn Gly Gly Thr Cys
 965 970 975
 Val Asn Leu Leu Val Gly Gly Phe Lys Cys Asp Cys Pro Ser Gly Asp
 980 985 990
 Phe Glu Lys Pro Tyr Cys Gln Val Thr Thr Arg Ser Phe Pro Ala His
 995 1000 1005
 Ser Phe Ile Thr Phe Arg Gly Leu Arg Gln Arg Phe His Phe Thr Leu
 1010 1015 1020
 Ala Leu Ser Phe Ala Thr Lys Glu Arg Asp Gly Leu Leu Leu Tyr Asn
 1025 1030 1035 1040
 Gly Arg Phe Asn Glu Lys His Asp Phe Val Ala Leu Glu Val Ile Gln
 1045 1050 1055
 Glu Gln Val Gln Leu Thr Phe Ser Ala Gly Glu Ser Thr Thr Thr Val
 1060 1065 1070
 Ser Pro Phe Val Pro Gly Gly Val Ser Asp Gly Gln Trp His Thr Val
 1075 1080 1085
 Gln Leu Lys Tyr Tyr Asn Lys Pro Leu Leu Gly Gln Thr Gly Leu Pro
 1090 1095 1100
 Gln Gly Pro Ser Glu Gln Lys Val Ala Val Val Thr Val Asp Gly Cys
 1105 1110 1115 1120
 Asp Thr Gly Val Ala Leu Arg Phe Gly Ser Val Leu Gly Asn Tyr Ser
 1125 1130 1135
 Cys Ala Ala Gln Gly Thr Gln Gly Gly Ser Lys Lys Ser Leu Asp Leu
 1140 1145 1150
 Thr Gly Pro Leu Leu Leu Gly Gly Val Pro Asp Leu Pro Glu Ser Phe
 1155 1160 1165
 Pro Val Arg Met Arg Gln Phe Val Gly Cys Met Arg Asn Leu Gln Val
 1170 1175 1180
 Asp Ser Arg His Ile Asp Met Ala Asp Phe Ile Ala Asn Asn Gly Thr
 1185 1190 1195 1200
 Val Pro Gly Cys Pro Ala Lys Lys Asn Val Cys Asp Ser Lys Thr Cys
 1205 1210 1215

His Asn Gly Gly Thr Cys Val Asn Gln Trp Asp Ala Phe Ser Cys Glu
 1220 1225 1230
 Cys Pro Leu Gly Phe Gly Gly Lys Ser Cys Ala Gln Glu Met Ala Asn
 1235 1240 1245
 Pro Gln His Phe Leu Gly Ser Ser Leu Val Ala Trp His Gly Leu Ser
 1250 1255 1260
 Leu Pro Ile Ser Gln Pro Trp Tyr Leu Ser Leu Met Phe Arg Thr Arg
 1265 1270 1275 1280
 Gln Ala Asp Gly Val Leu Leu Gln Ala Ile Thr Arg Gly Arg Ser Thr
 1285 1290 1295
 Ile Thr Leu Gln Leu Arg Glu Gly His Val Met Leu Ser Val Glu Gly
 1300 1305 1310
 Thr Gly Leu Gln Ala Ser Ser Leu Arg Leu Glu Pro Gly Arg Ala Asn
 1315 1320 1325
 Asp Gly Asp Trp His His Ala Gln Leu Ala Leu Gly Ala Ile Gly Gly
 1330 1335 1340
 Pro Gly His Ala Ile Leu Ser Phe Asp Tyr Gly Gln Gln Arg Ala Glu
 1345 1350 1355 1360
 Gly Asn Leu Gly Pro Arg Leu His Gly Leu His Leu Ser Asn Ile Thr
 1365 1370 1375
 Val Gly Gly Ile Pro Gly Pro Ala Gly Gly Val Ala Arg Gly Phe Arg
 1380 1385 1390
 Gly Cys Leu Gln Gly Val Arg Val Ser Asp Thr Pro Glu Gly Val Asn
 1395 1400 1405
 Ser Leu Asp Pro Ser His Gly Glu Ser Ile Asn Val Glu Gln Gly Cys
 1410 1415 1420
 Ser Leu Pro Asp Pro Cys Asp Ser Asn Pro Cys Pro Ala Asn Ser Tyr
 1425 1430 1435 1440
 Cys Ser Asn Asp Trp Asp Ser Tyr Ser Cys Ser Cys Asp Pro Gly Tyr
 1445 1450 1455
 Tyr Gly Asp Asn Cys Thr Asn Val Cys Asp Leu Asn Pro Cys Glu His
 1460 1465 1470
 Gln Ser Val Cys Thr Arg Lys Pro Ser Ala Pro His Gly Tyr Thr Cys
 1475 1480 1485
 Glu Cys Pro Pro Asn Tyr Leu Gly Pro Tyr Cys Glu Thr Arg Ile Asp
 1490 1495 1500
 Gln Pro Cys Pro Arg Gly Trp Trp Gly His Pro Thr Cys Gly Pro Cys
 1505 1510 1515 1520
 Asn Cys Asp Val Ser Lys Gly Phe Asp Pro Asp Cys Asn Lys Thr Ser
 1525 1530 1535
 Gly Glu Cys His Cys Lys Glu Asn His Tyr Arg Pro Pro Gly Ser Pro
 1540 1545 1550
 Thr Cys Leu Leu Cys Asp Cys Tyr Pro Thr Gly Ser Leu Ser Arg Val
 1555 1560 1565
 Cys Asp Pro Glu Asp Gly Gln Cys Pro Cys Lys Pro Gly Val Ile Gly
 1570 1575 1580
 Arg Gln Cys Asp Arg Cys Asp Asn Pro Phe Ala Glu Val Thr Thr Asn
 1585 1590 1595 1600
 Gly Cys Glu Val Asn Tyr Asp Ser Cys Pro Arg Ala Ile Glu Ala Gly
 1605 1610 1615
 Ile Trp Trp Pro Arg Thr Arg Phe Gly Leu Pro Ala Ala Pro Cys
 1620 1625 1630
 Pro Lys Gly Ser Phe Gly Thr Ala Val Arg His Cys Asp Glu His Arg
 1635 1640 1645
 Gly Trp Leu Pro Pro Asn Leu Phe Asn Cys Thr Ser Ile Thr Phe Ser
 1650 1655 1660
 Glu Leu Lys Gly Phe Ala Glu Arg Leu Gln Arg Asn Glu Ser Gly Leu
 1665 1670 1675 1680
 Asp Ser Gly Arg Ser Gln Gln Leu Ala Leu Leu Leu Arg Asn Ala Thr
 1685 1690 1695
 Gln His Thr Ala Gly Tyr Phe Gly Ser Asp Val Lys Val Ala Tyr Gln
 1700 1705 1710
 Leu Ala Thr Arg Leu Leu Ala His Glu Ser Thr Gln Arg Gly Phe Gly
 1715 1720 1725

Leu Ser Ala Thr Gln Asp Val His Phe Thr Glu Asn Leu Leu Arg Val
 1730 1735 1740
 Gly Ser Ala Leu Leu Asp Thr Ala Asn Lys Arg His Trp Glu Leu Ile
 1745 1750 1755 1760
 Gln Gln Thr Glu Gly Gly Thr Ala Trp Leu Leu Gln His Tyr Glu Ala
 1765 1770 1775
 Tyr Ala Ser Ala Leu Ala Gln Asn Met Arg His Thr Tyr Leu Ser Pro
 1780 1785 1790
 Phe Thr Ile Val Thr Pro Asn Ile Val Ile Ser Val Val Arg Leu Asp
 1795 1800 1805
 Lys Gly Asn Phe Ala Gly Ala Lys Leu Pro Arg Tyr Glu Ala Leu Arg
 1810 1815 1820
 Gly Glu Gln Pro Pro Asp Leu Glu Thr Thr Val Ile Leu Pro Glu Ser
 1825 1830 1835 1840
 Val Phe Arg Glu Thr Pro Pro Val Val Arg Pro Ala Gly Pro Gly Glu
 1845 1850 1855
 Ala Gln Glu Pro Glu Glu Leu Ala Arg Arg Gln Arg Arg His Pro Glu
 1860 1865 1870
 Leu Ser Gln Gly Glu Ala Val Ala Ser Val Ile Ile Tyr Arg Thr Leu
 1875 1880 1885
 Ala Gly Leu Leu Pro His Asn Tyr Asp Pro Asp Lys Arg Ser Leu Arg
 1890 1895 1900
 Val Pro Lys Arg Pro Ile Ile Asn Thr Pro Val Val Ser Ile Ser Val
 1905 1910 1915 1920
 His Asp Asp Glu Glu Leu Leu Pro Arg Ala Leu Asp Lys Pro Val Thr
 1925 1930 1935
 Val Gln Phe Arg Leu Leu Glu Thr Glu Glu Arg Thr Lys Pro Ile Cys
 1940 1945 1950
 Val Phe Trp Asn His Ser Ile Leu Val Ser Gly Thr Gly Gly Trp Ser
 1955 1960 1965
 Ala Arg Gly Cys Glu Val Val Phe Arg Asn Glu Ser His Val Ser Cys
 1970 1975 1980
 Gln Cys Asn His Met Thr Ser Phe Ala Val Leu Met Asp Val Ser Arg
 1985 1990 1995 2000
 Arg Glu Asn Gly Glu Ile Leu Pro Leu Lys Thr Leu Thr Tyr Val Ala
 2005 2010 2015
 Leu Gly Val Thr Leu Ala Ala Leu Leu Thr Phe Phe Phe Leu Thr
 2020 2025 2030
 Leu Leu Arg Ile Leu Arg Ser Asn Gln His Gly Ile Arg Arg Asn Leu
 2035 2040 2045
 Thr Ala Ala Leu Gly Leu Ala Gln Leu Val Phe Leu Leu Gly Ile Asn
 2050 2055 2060
 Gln Ala Asp Leu Pro Phe Ala Cys Thr Val Ile Ala Ile Leu Leu His
 2065 2070 2075 2080
 Phe Leu Tyr Leu Cys Thr Phe Ser Trp Ala Leu Leu Glu Ala Leu His
 2085 2090 2095
 Leu Tyr Arg Ala Leu Thr Glu Val Arg Asp Val Asn Thr Gly Pro Met
 2100 2105 2110
 Arg Phe Tyr Tyr Met Leu Gly Trp Gly Val Pro Ala Phe Ile Thr Gly
 2115 2120 2125
 Leu Ala Val Gly Leu Asp Pro Glu Gly Tyr Gly Asn Pro Asp Phe Cys
 2130 2135 2140
 Trp Leu Ser Ile Tyr Asp Thr Leu Ile Trp Ser Phe Ala Gly Pro Val
 2145 2150 2155 2160
 Ala Phe Ala Val Ser Met Ser Val Phe Leu Tyr Ile Leu Ala Ala Arg
 2165 2170 2175
 Ala Ser Cys Ala Ala Gln Arg Gln Gly Phe Glu Lys Lys Gly Pro Val
 2180 2185 2190
 Ser Gly Leu Gln Pro Ser Phe Ala Val Leu Leu Leu Leu Ser Ala Thr
 2195 2200 2205
 Trp Leu Leu Ala Leu Leu Ser Val Asn Ser Asp Thr Leu Leu Phe His
 2210 2215 2220
 Tyr Leu Phe Ala Thr Cys Asn Cys Ile Gln Gly Pro Phe Ile Phe Leu
 2225 2230 2235 2240

Ser Tyr Val Val Leu Ser Lys Glu Val Arg Lys Ala Leu Lys Leu Ala
 2245 2250 2255
 Cys Ser Arg Lys Pro Ser Pro Asp Pro Ala Leu Thr Thr Lys Ser Thr
 2260 2265 2270
 Leu Thr Ser Ser Tyr Asn Cys Pro Ser Pro Tyr Ala Asp Gly Arg Leu
 2275 2280 2285
 Tyr Gln Pro Tyr Gly Asp Ser Ala Gly Ser Leu His Ser Thr Ser Arg
 2290 2295 2300
 Ser Gly Lys Ser Gln Pro Ser Tyr Ile Pro Phe Leu Leu Arg Glu Glu
 2305 2310 2315 2320
 Ser Ala Leu Asn Pro Gly Gln Gly Pro Pro Gly Leu Gly Gly Ile Pro
 2325 2330 2335
 Gly Arg Leu Cys Phe Leu Gly Arg Phe Lys Asp Gln Gln His Asp Ser
 2340 2345 2350
 Xaa Thr Arg Asp Phe Asp Ser Asp Leu Ser Leu Glu Asp Asp Gln Ser
 2355 2360 2365
 Gly Ser Tyr Ala Ser Thr His Ser Ser Asp Ser Glu Glu Glu Glu
 2370 2375 2380
 Glu Glu Glu Glu Glu Ala Ala Phe Pro Gly Glu Gln Gly Trp Asp Ser
 2385 2390 2395 2400
 Leu Leu Gly Pro Gly Ala Glu Arg Leu Pro Leu His Ser Thr Pro Lys
 2405 2410 2415
 Asp Gly Gly Pro Gly Pro Gly Lys Ala Pro Trp Pro Gly Asp Phe Gly
 2420 2425 2430
 Thr Thr Ala Lys Glu Ser Ser Gly Asn Gly Ala Pro Glu Glu Arg Leu
 2435 2440 2445
 Arg Glu Asn Gly Asp Ala Leu Ser Arg Glu Gly Ser Leu Gly Pro Leu
 2450 2455 2460
 Pro Gly Ser Ser Ala Gln Pro His Lys Gly Ile Leu Lys Lys Lys Cys
 2465 2470 2475 2480
 Leu Pro Thr Ile Ser Glu Lys Ser Ser Leu Leu Arg Leu Pro Leu Glu
 2485 2490 2495
 Gln Cys Thr Gly Ser Ser Arg Gly Ser Ser Ala Ser Glu Gly Ser Arg
 2500 2505 2510
 Gly Gly Pro Pro Ser Arg Pro Pro Pro Arg Gln Ser Leu Gln Glu Gln
 2515 2520 2525
 Leu Asn Gly Val Met Pro Ile Ala Met Ser Ile Lys Ala Gly Thr Val
 2530 2535 2540
 Asp Glu Asp Ser Ser Gly Ser Glu Phe Leu Phe Phe Asn Phe Leu His
 2545 2550 2555 2560

<210> 1775
 <211> 423
 <212> PRT
 <213> Homo sapiens

<221> misc_feature
 <222> (1)...(420)
 <223> Xaa = any amino acid or nothing

<400> 1775
 Gly Glu Pro Ala Val Gln Ser Cys Asp Cys Gly Cys Thr Gln Arg Ser
 1 5 10 15
 Cys Pro Trp Leu Leu Val Ala Pro Gly Leu Leu Ser Ser Ser Ser
 20 25 30
 Arg Ala Ala Ser Val Arg Glu Ala Glu Asp Ala Pro Leu Gln Pro Ala
 35 40 45
 Ser Ile His Pro Val Ser Gln Gly Ser Arg Gly Pro Glu Gly Ser Leu
 50 55 60

Gly Ser Ala Glu Cys Leu Pro Gly Asp Pro Leu Gly Ala Arg Arg Ala
 65 70 75 80
 Thr Arg Ala His Ser Pro Val Pro Gly Pro Pro Ser Leu Pro Ala
 85 90 95
 Ala Gly Thr Ala Val Lys Arg Gly Leu Gln Pro Gly Xaa Gly Ala Gly
 100 105 110
 Ala Thr Ser Thr Pro Gly Thr Gly Ala Ala Thr Gly Gly Leu Cys Gly
 115 120 125
 Pro Ala Trp Ala Ala Pro Ser Ala Val Gly Pro Cys Cys Cys Cys Pro
 130 135 140
 Ser Ile Ser Thr Thr Pro Ser Gln Met Arg Ser Ala Arg Pro Ser Leu
 145 150 155 160
 Gly Cys Leu Pro Ser Trp Ala Ser Pro Gly Thr Glu His Pro Pro Gly
 165 170 175
 Pro Gln Gly Pro Gly Pro Ser Xaa Asp Leu Cys Ser Val Xaa Lys Arg
 180 185 190
 Glu Phe Gln Arg Gly Pro Trp Ala Gly Met Val Ile Leu His Arg Ile
 195 200 205
 Ser Ala Ala Asp Pro Ala Arg Ala Pro Gly Pro Asp Ser Asn Leu Gln
 210 215 220
 Ser Ala Leu Gln Gln Pro Ala Thr Gly Cys Ser Glu Pro Ala Ala Val
 225 230 235 240
 Tyr Ser Pro Pro Ile Gly Leu Trp Gly Ala Xaa Xaa Pro Glu Tyr Gly
 245 250 255
 Xaa Pro Gln His Ser Leu Pro Gly Xaa Thr Ala Pro Ala Asp Arg Xaa
 260 265 270
 Pro Ala Gly Ile Lys Asp Arg Val Tyr Ser Asn Ser Ile Tyr Glu Leu
 275 280 285
 Leu Glu Asn Gly Gln Arg Ala Gly Thr Cys Val Leu Glu Tyr Ala Thr
 290 295 300
 Pro Leu Gln Thr Leu Phe Ala Met Ser Gln Tyr Ser Gln Ala Gly Phe
 305 310 315 320
 Ser Arg Glu Asp Arg Leu Glu Gln Ala Lys Leu Phe Cys Arg Thr Leu
 325 330 335
 Glu Asp Ile Leu Ala Asp Ala Pro Glu Ser Gln Asn Asn Cys Arg Leu
 340 345 350
 Ile Ala Tyr Gln Glu Pro Ala Asp Asp Ser Ser Phe Ser Leu Ser Gln
 355 360 365
 Glu Val Leu Arg His Leu Arg Gln Glu Glu Lys Glu Glu Val Thr Val
 370 375 380
 Gly Ser Leu Lys Thr Ser Ala Val Pro Ser Thr Ser Thr Met Ser Gln
 385 390 395 400
 Glu Pro Glu Leu Leu Ile Ser Gly Met Glu Lys Pro Leu Pro Leu Arg
 405 410 415
 Thr Asp Phe Ser
 420

<210> 1776

<211> 435

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(431)

<223> Xaa = any amino acid or nothing

<400> 1776

Ala Ile Trp Trp Leu Ser Trp Leu Gln His Asp Leu Leu Pro Thr Pro
 1 5 10 15
 Thr Gln Val Ala Ile Asp Phe Thr Ala Ser Asn Gly Asp Pro Arg Ser
 20 25 30

```

Ser Gln Ser Leu His Cys Leu Ser Pro Arg Gln Pro Asn His Tyr Leu
   35           40           45
Gln Ala Leu Arg Ala Val Gly Ile Cys Gln Asp Tyr Asp Ser Val
   50           55           60
Gly Glu Ser Gly Ala Gly Gly Asn Arg Gln Gly Gly Leu Ala Gln Arg
   65           70           75           80
Ile Pro Gln Leu Phe Leu Leu Pro Ser Asp Lys Arg Phe Pro Ala Phe
           85           90           95
Gly Phe Gly Ala Arg Ile Pro Pro Asn Phe Glu Val Gly Xaa Met Arg
          100          105          110
Gly Lys Glu Gly Asp Gly Gly Arg Val Ser Gln Ala Glu Lys Ala Gly
          115          120          125
Pro His Cys Ser Arg Leu Ala Leu Thr Gly Ser His Asp Phe Ala Ile
          130          135          140
Asn Phe Asp Pro Glu Asn Pro Glu Cys Glu Gly Lys Arg Gly Asp Phe
          145          150          155          160
His Leu Pro Arg Leu Pro Ala Asp Thr Leu His Thr Gly Ala Gln Thr
          165          170          175
Pro Leu Pro Arg Ala Gln Leu Pro Val Pro Ser Thr His Pro Arg Pro
          180          185          190
Val Phe Ile Glu Ile Ser Gly Val Ile Ala Ser Tyr Arg Arg Cys Leu
          195          200          205
Pro Gln Ile Gln Leu Tyr Gly Pro Thr Asn Val Ala Pro Ile Ile Asn
          210          215          220
Arg Val Ala Glu Pro Ala Gln Arg Glu Gln Ser Thr Gly Gln Ala Thr
          225          230          235          240
Lys Tyr Ser Val Leu Leu Val Leu Thr Asp Gly Val Val Ser Asp Met
          245          250          255
Ala Glu Thr Arg Thr Ala Ile Val Arg Ala Ser Arg Leu Pro Met Ser
          260          265          270
Ile Ile Ile Val Gly Val Gly Asn Ala Asp Phe Ser Asp Met Arg Leu
          275          280          285
Leu Asp Gly Asp Asp Gly Pro Leu Arg Cys Pro Arg Gly Val Pro Ala
          290          295          300
Ala Arg Asp Ile Val Gln Phe Val Pro Phe Arg Asp Phe Lys Asp Val
          305          310          315          320
Ser Pro Pro Gly Pro Phe Arg Leu Lys Asp Ser Ser Ala Ser His Pro
          325          330          335
Pro Lys Ser Asp Leu Arg Leu Pro Pro Phe Asp Val Leu Leu Arg Thr
          340          345          350
Arg Glu Pro Ser Trp Pro Pro Xaa Ser Pro Thr Ser Pro Ser Asp Asp
          355          360          365
Pro Ala Ser Pro Thr Leu Pro Leu Thr Pro Asn His Ile Thr Val Pro
          370          375          380
Thr Leu Ala Ala Pro Ser Ala Leu Ala Lys Cys Val Leu Ala Glu Val
          385          390          395          400
Pro Arg Gln Val Val Glu Tyr Tyr Ala Ser Gln Gly Ile Ser Pro Gly
          405          410          415
Ala Pro Arg Pro Cys Thr Leu Ala Thr Thr Pro Ser Pro Ser Pro
          420          425          430          431

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<210> 1777
 <211> 3223
 <212> PRT
 <213> Homo sapiens

<400> 1777
 Gly Cys Gln Ser Cys Trp Pro Ala Trp Pro Arg Leu Arg Arg Arg Gly
 1 5 10 15
 Pro Ala Ser Ala Gly Ala Arg Leu Gly Arg Lys Ala Pro Trp Gly Leu
 20 25 30

Pro Gly Arg Val Gln Asp Gly Arg Pro Leu Arg Phe Cys Phe Tyr Leu
 35 40 45
 Arg Pro Arg Ala Pro Phe Ile Ala Pro Val Leu Ser Gly Ala Ala Ser
 50 55 60
 Arg Pro Glu Ala Ser Gly Asp Cys Arg Ala Gly Arg Glu Thr Ala Met
 65 70 75 80
 Ala Thr Leu Glu Lys Leu Met Lys Ala Phe Glu Ser Leu Lys Ser Phe
 85 90 95
 Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln
 100 105 110
 Gln Gln Gln Gln Gln Gln Gln Pro Pro Pro Pro Pro Pro Pro Pro
 115 120 125
 Pro Pro Gln Leu Pro Gln Pro Pro Pro Gln Ala Gln Pro Leu Leu Pro
 130 135 140
 Gln Pro Gln Pro Pro Pro Pro Pro Pro Pro Pro Gly Pro Ala
 145 150 155 160
 Val Ala Glu Glu Pro Leu His Arg Pro Lys Lys Glu Leu Ser Ala Thr
 165 170 175
 Lys Lys Asp Arg Val Asn His Cys Leu Thr Ile Cys Glu Asn Ile Val
 180 185 190
 Ala Gln Ser Val Arg Asn Ser Pro Glu Phe Gln Lys Leu Leu Gly Ile
 195 200 205
 Ala Met Glu Leu Phe Leu Leu Cys Ser Asp Asp Ala Glu Ser Asp Val
 210 215 220
 Arg Met Val Ala Asp Glu Cys Leu Asn Lys Val Ile Lys Ala Leu Met
 225 230 235 240
 Asp Ser Asn Leu Pro Arg Leu Gln Leu Glu Leu Tyr Lys Glu Ile Lys
 245 250 255
 Lys Asn Gly Ala Pro Arg Ser Leu Arg Ala Ala Leu Trp Arg Phe Ala
 260 265 270
 Glu Leu Ala His Leu Val Arg Pro Gln Lys Cys Arg Pro Tyr Leu Val
 275 280 285
 Asn Leu Leu Pro Cys Leu Thr Arg Thr Ser Lys Arg Pro Glu Glu Ser
 290 295 300
 Val Gln Glu Thr Leu Ala Ala Val Pro Lys Ile Met Ala Ser Phe
 305 310 315 320
 Gly Asn Phe Ala Asn Asp Asn Glu Ile Lys Val Leu Leu Lys Ala Phe
 325 330 335
 Ile Ala Asn Leu Lys Ser Ser Ser Pro Thr Ile Arg Arg Thr Ala Ala
 340 345 350
 Gly Ser Ala Val Ser Ile Cys Gln His Ser Arg Arg Thr Gln Tyr Phe
 355 360 365
 Tyr Ser Trp Leu Leu Asn Val Leu Leu Gly Leu Leu Val Pro Val Glu
 370 375 380
 Asp Glu His Ser Thr Leu Leu Ile Leu Gly Val Leu Leu Thr Leu Arg
 385 390 395 400
 Tyr Leu Val Pro Leu Leu Gln Gln Gln Val Lys Asp Thr Ser Leu Lys
 405 410 415
 Gly Ser Phe Gly Val Thr Arg Lys Glu Met Glu Val Ser Pro Ser Ala
 420 425 430
 Glu Gln Leu Val Gln Val Tyr Glu Leu Thr Leu His His Thr Gln His
 435 440 445
 Gln Asp His Asn Val Val Thr Gly Ala Leu Glu Leu Leu Gln Gln Leu
 450 455 460
 Phe Arg Thr Pro Pro Pro Glu Leu Leu Gln Thr Leu Thr Ala Val Gly
 465 470 475 480
 Gly Ile Gly Gln Leu Thr Ala Ala Lys Glu Glu Ser Gly Gly Arg Ser
 485 490 495
 Arg Ser Gly Ser Ile Val Glu Leu Ile Ala Gly Gly Gly Ser Ser Cys
 500 505 510
 Ser Pro Val Leu Ser Arg Lys Gln Lys Gly Lys Val Leu Leu Gly Glu
 515 520 525
 Glu Glu Ala Leu Glu Asp Asp Ser Glu Ser Arg Ser Asp Val Ser Ser
 530 535 540

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Ser Ala Leu Thr Ala Ser Val Lys Asp Glu Ile Ser Gly Glu Leu Ala
 545 550 555 560
 Ala Ser Ser Gly Val Ser Thr Pro Gly Ser Ala Gly His Asp Ile Ile
 565 570 575
 Thr Glu Gln Pro Arg Ser Gln His Thr Leu Gln Ala Asp Ser Val Asp
 580 585 590
 Leu Ala Ser Cys Asp Leu Thr Ser Ser Ala Thr Asp Gly Asp Glu Glu
 595 600 605
 Asp Ile Leu Ser His Ser Ser Ser Gln Val Ser Ala Val Pro Ser Asp
 610 615 620
 Pro Ala Met Asp Leu Asn Asp Gly Thr Gln Ala Ser Ser Pro Ile Ser
 625 630 635 640
 Asp Ser Ser Gln Thr Thr Thr Glu Gly Pro Asp Ser Ala Val Thr Pro
 645 650 655
 Ser Asp Ser Ser Glu Ile Val Leu Asp Gly Thr Asp Asn Gln Tyr Leu
 660 665 670
 Gly Leu Gln Ile Gly Gln Pro Gln Asp Glu Asp Glu Glu Ala Thr Gly
 675 680 685
 Ile Leu Pro Asp Glu Ala Ser Glu Ala Phe Arg Asn Ser Ser Met Ala
 690 695 700
 Leu Gln Gln Ala His Leu Leu Lys Asn Met Ser His Cys Arg Gln Pro
 705 710 715 720
 Ser Asp Ser Ser Val Asp Lys Phe Val Leu Arg Asp Glu Ala Thr Glu
 725 730 735
 Pro Gly Asp Gln Glu Asn Lys Pro Cys Arg Ile Lys Gly Asp Ile Gly
 740 745 750
 Gln Ser Thr Asp Asp Asp Ser Ala Pro Leu Val His Cys Val Arg Leu
 755 760 765
 Leu Ser Ala Ser Phe Leu Leu Thr Gly Gly Lys Asn Val Leu Val Pro
 770 775 780
 Asp Arg Asp Val Arg Val Ser Val Lys Ala Leu Ala Leu Ser Cys Val
 785 790 795 800
 Gly Ala Ala Val Ala Leu His Pro Glu Ser Phe Phe Ser Lys Leu Tyr
 805 810 815
 Lys Val Pro Leu Asp Thr Thr Glu Tyr Pro Glu Glu Gln Tyr Val Ser
 820 825 830
 Asp Ile Leu Asn Tyr Ile Asp His Gly Asp Pro Gln Val Arg Gly Ala
 835 840 845
 Thr Ala Ile Leu Cys Gly Thr Leu Ile Cys Ser Ile Leu Ser Arg Ser
 850 855 860
 Arg Phe His Val Gly Asp Trp Met Gly Thr Ile Arg Thr Leu Thr Gly
 865 870 875 880
 Asn Thr Phe Ser Leu Ala Asp Cys Ile Pro Leu Leu Arg Lys Thr Leu
 885 890 895
 Lys Asp Glu Ser Ser Val Thr Cys Lys Leu Ala Cys Thr Ala Val Arg
 900 905 910
 Asn Cys Val Met Ser Leu Cys Ser Ser Tyr Ser Glu Leu Gly Leu
 915 920 925
 Gln Leu Ile Ile Asp Val Leu Thr Leu Arg Asn Ser Ser Tyr Trp Leu
 930 935 940
 Val Arg Thr Glu Leu Leu Glu Thr Leu Ala Glu Ile Asp Phe Arg Leu
 945 950 955 960
 Val Ser Phe Leu Glu Ala Lys Ala Glu Asn Leu His Arg Gly Ala His
 965 970 975
 His Tyr Thr Gly Leu Leu Lys Leu Gln Glu Arg Val Leu Asn Asn Val
 980 985 990
 Val Ile His Leu Leu Gly Asp Glu Asp Pro Arg Val Arg His Val Ala
 995 1000 1005
 Ala Ala Ser Leu Ile Arg Leu Val Pro Lys Leu Phe Tyr Lys Cys Asp
 1010 1015 1020
 Gln Gly Gln Ala Asp Pro Val Val Ala Val Ala Arg Asp Gln Ser Ser
 1025 1030 1035 1040
 Val Tyr Leu Lys Leu Met His Glu Thr Gln Pro Pro Ser His Phe
 1045 1050 1055

Ser Val Ser Thr Ile Thr Arg Ile Tyr Arg Gly Tyr Asn Leu Leu Pro
 1060 1065 1070
 Ser Ile Thr Asp Val Thr Met Glu Asn Asn Leu Ser Arg Val Ile Ala
 1075 1080 1085
 Ala Val Ser His Glu Leu Ile Thr Ser Thr Thr Arg Ala Leu Thr Phe
 1090 1095 1100
 Gly Cys Cys Glu Ala Leu Cys Leu Leu Ser Thr Ala Phe Pro Val Cys
 1105 1110 1115 1120
 Ile Trp Ser Leu Gly Trp His Cys Gly Val Pro Pro Leu Ser Ala Ser
 1125 1130 1135
 Asp Glu Ser Arg Lys Ser Cys Thr Val Gly Met Ala Thr Met Ile Leu
 1140 1145 1150
 Thr Leu Leu Ser Ser Ala Trp Phe Pro Leu Asp Leu Ser Ala His Gln
 1155 1160 1165
 Asp Ala Leu Ile Leu Ala Gly Asn Leu Leu Ala Ala Ser Ala Pro Lys
 1170 1175 1180
 Ser Leu Arg Ser Ser Trp Ala Ser Glu Gly Glu Ala Asn Pro Ala Ala
 1185 1190 1195 1200
 Thr Lys Gln Glu Glu Val Trp Pro Ala Leu Gly Asp Arg Ala Leu Val
 1205 1210 1215
 Pro Met Val Glu Gln Leu Phe Ser His Leu Leu Lys Val Ile Asn Ile
 1220 1225 1230
 Cys Ala His Val Leu Asp Asp Val Ala Pro Gly Pro Ala Ile Lys Ala
 1235 1240 1245
 Ala Leu Pro Ser Leu Thr Asn Pro Pro Ser Leu Ser Pro Ile Arg Arg
 1250 1255 1260
 Lys Gly Lys Glu Lys Glu Pro Gly Glu Gln Ala Ser Val Pro Leu Ser
 1265 1270 1275 1280
 Pro Lys Lys Gly Ser Glu Ala Ser Ala Ala Ser Arg Gln Ser Asp Thr
 1285 1290 1295
 Ser Gly Pro Val Thr Thr Ser Lys Ser Ser Ser Leu Gly Ser Phe Tyr
 1300 1305 1310
 His Leu Pro Ser Tyr Leu Lys Leu His Asp Val Leu Lys Ala Thr His
 1315 1320 1325
 Ala Asn Tyr Lys Val Thr Leu Asp Leu Gln Asn Ser Thr Glu Lys Phe
 1330 1335 1340
 Gly Gly Phe Leu Arg Ser Ala Leu Asp Val Leu Ser Gln Ile Leu Glu
 1345 1350 1355 1360
 Leu Ala Thr Leu Gln Asp Ile Gly Lys Cys Val Glu Glu Ile Leu Gly
 1365 1370 1375
 Tyr Leu Lys Ser Cys Phe Ser Arg Glu Pro Met Met Ala Thr Val Cys
 1380 1385 1390
 Val Gln Gln Leu Leu Lys Thr Leu Phe Gly Thr Asn Leu Ala Ser Gln
 1395 1400 1405
 Phe Asp Gly Leu Ser Ser Asn Pro Ser Lys Ser Gln Gly Arg Ala Gln
 1410 1415 1420
 Arg Leu Gly Ser Ser Ser Val Arg Pro Gly Leu Tyr His Tyr Cys Phe
 1425 1430 1435 1440
 Met Ala Pro Tyr Thr His Phe Thr Gln Ala Leu Ala Asp Ala Ser Leu
 1445 1450 1455
 Arg Asn Met Val Gln Ala Glu Gln Glu Asn Asp Thr Ser Gly Trp Phe
 1460 1465 1470
 Asp Val Leu Gln Lys Val Ser Thr Gln Leu Lys Thr Asn Leu Thr Ser
 1475 1480 1485
 Val Thr Lys Asn Arg Ala Asp Lys Asn Ala Ile His Asn His Ile Arg
 1490 1495 1500
 Leu Phe Glu Pro Leu Val Ile Lys Ala Leu Lys Gln Tyr Thr Thr Thr
 1505 1510 1515 1520
 Thr Cys Val Gln Leu Gln Lys Gln Val Leu Asp Leu Leu Ala Gln Leu
 1525 1530 1535
 Val Gln Leu Arg Val Asn Tyr Cys Leu Leu Asp Ser Asp Gln Val Phe
 1540 1545 1550
 Ile Gly Phe Val Leu Lys Gln Phe Glu Tyr Ile Glu Val Gly Gln Phe
 1555 1560 1565

Arg Glu Ser Glu Ala Ile Ile Pro Asn Ile Phe Phe Phe Leu Val Leu
 1570 1575 1580
 Leu Ser Tyr Glu Arg Tyr His Ser Lys Gln Ile Ile Gly Ile Pro Lys
 1585 1590 1595 1600
 Ile Ile Gln Leu Cys Asp Gly Ile Met Ala Ser Gly Arg Lys Ala Val
 1605 1610 1615
 Thr His Ala Ile Pro Ala Leu Gln Pro Ile Val His Asp Leu Phe Val
 1620 1625 1630
 Leu Arg Gly Thr Asn Lys Ala Asp Ala Gly Lys Glu Leu Glu Thr Gln
 1635 1640 1645
 Lys Glu Val Val Val Ser Met Leu Leu Arg Leu Ile Gln Tyr His Gln
 1650 1655 1660
 Val Leu Glu Met Phe Ile Leu Val Leu Gln Gln Cys His Lys Glu Asn
 1665 1670 1675 1680
 Glu Asp Lys Trp Lys Arg Leu Ser Arg Gln Ile Ala Asp Ile Ile Leu
 1685 1690 1695
 Pro Met Leu Ala Lys Gln Gln Met His Ile Asp Ser His Glu Ala Leu
 1700 1705 1710
 Gly Val Leu Asn Thr Leu Phe Glu Ile Leu Ala Pro Ser Ser Leu Arg
 1715 1720 1725
 Pro Val Asp Met Leu Leu Arg Ser Met Phe Val Thr Pro Asn Thr Met
 1730 1735 1740
 Ala Ser Val Ser Thr Val Gln Leu Trp Ile Ser Gly Ile Leu Ala Ile
 1745 1750 1755 1760
 Leu Arg Val Leu Ile Ser Gln Ser Thr Glu Asp Ile Val Leu Ser Arg
 1765 1770 1775
 Ile Gln Glu Leu Ser Phe Ser Pro Tyr Leu Ile Ser Cys Thr Val Ile
 1780 1785 1790
 Asn Arg Leu Arg Asp Gly Asp Ser Thr Ser Thr Leu Glu Glu His Ser
 1795 1800 1805
 Glu Gly Lys Gln Ile Lys Asn Leu Pro Glu Glu Thr Phe Ser Arg Phe
 1810 1815 1820
 Leu Leu Gln Leu Val Gly Ile Leu Leu Glu Asp Ile Val Thr Lys Gln
 1825 1830 1835 1840
 Leu Lys Val Glu Met Ser Glu Gln Gln His Thr Phe Tyr Cys Gln Glu
 1845 1850 1855
 Leu Gly Thr Leu Leu Met Cys Leu Ile His Ile Phe Lys Ser Gly Met
 1860 1865 1870
 Phe Arg Arg Ile Thr Ala Ala Ala Thr Arg Leu Phe Arg Ser Asp Gly
 1875 1880 1885
 Cys Gly Gly Ser Phe Tyr Thr Leu Asp Ser Leu Asn Leu Arg Ala Arg
 1890 1895 1900
 Ser Met Ile Thr Thr His Pro Ala Leu Val Leu Leu Trp Cys Gln Ile
 1905 1910 1915 1920
 Leu Leu Leu Val Asn His Thr Asp Tyr Arg Trp Trp Ala Glu Val Gln
 1925 1930 1935
 Gln Thr Pro Lys Arg His Ser Leu Ser Ser Thr Lys Leu Leu Ser Pro
 1940 1945 1950
 Gln Met Ser Gly Glu Glu Glu Asp Ser Asp Leu Ala Ala Lys Leu Gly
 1955 1960 1965
 Met Cys Asn Arg Glu Ile Val Arg Arg Gly Ala Leu Ile Leu Phe Cys
 1970 1975 1980
 Asp Tyr Val Cys Gln Asn Leu His Asp Ser Glu His Leu Thr Trp Leu
 1985 1990 1995 2000
 Ile Val Asn His Ile Gln Asp Leu Ile Ser Leu Ser His Glu Pro Pro
 2005 2010 2015
 Val Gln Asp Phe Ile Ser Ala Val His Arg Asn Ser Ala Ala Ser Gly
 2020 2025 2030
 Leu Phe Ile Gln Ala Ile Gln Ser Arg Cys Glu Asn Leu Ser Thr Pro
 2035 2040 2045
 Thr Met Leu Lys Lys Thr Leu Gln Cys Leu Glu Gly Ile His Leu Ser
 2050 2055 2060
 Gln Ser Gly Ala Val Leu Thr Leu Tyr Val Asp Arg Leu Leu Cys Thr
 2065 2070 2075 2080

Pro Phe Arg Val Leu Ala Arg Met Val Asp Ile Leu Ala Cys Arg Arg
2085 2090 2095
Val Glu Met Leu Leu Ala Ala Asn Leu Gln Ser Ser Met Ala Gln Leu
2100 2105 2110
Pro Met Glu Glu Leu Asn Arg Ile Gln Glu Tyr Leu Gln Ser Ser Gly
2115 2120 2125
Leu Ala Gln Arg His Gln Arg Leu Tyr Ser Leu Leu Asp Arg Phe Arg
2130 2135 2140
Leu Ser Thr Met Gln Asp Ser Leu Ser Pro Ser Pro Pro Val Ser Ser
2145 2150 2155 2160
His Pro Leu Asp Gly Asp Gly His Val Ser Leu Glu Thr Val Ser Pro
2165 2170 2175
Asp Lys Asp Trp Tyr Val His Leu Val Lys Ser Gln Cys Trp Thr Arg
2180 2185 2190
Ser Asp Ser Ala Leu Leu Glu Gly Ala Glu Leu Val Asn Arg Ile Pro
2195 2200 2205
Ala Glu Asp Met Asn Ala Phe Met Met Asn Ser Glu Phe Asn Leu Ser
2210 2215 2220
Leu Leu Ala Pro Cys Leu Ser Leu Gly Met Ser Glu Ile Ser Gly Gly
2225 2230 2235 2240
Gln Lys Ser Ala Leu Phe Glu Ala Ala Arg Glu Val Thr Leu Ala Arg
2245 2250 2255
Val Ser Gly Thr Val Gln Gln Leu Pro Ala Val His His Val Phe Gln
2260 2265 2270
Pro Glu Leu Pro Ala Glu Pro Ala Ala Tyr Trp Ser Lys Leu Asn Asp
2275 2280 2285
Leu Phe Gly Asp Ala Ala Leu Tyr Gln Ser Leu Pro Thr Leu Ala Arg
2290 2295 2300
Ala Leu Ala Gln Tyr Leu Val Val Val Ser Lys Leu Pro Ser His Leu
2305 2310 2315 2320
His Leu Pro Pro Glu Lys Glu Lys Asp Ile Val Lys Phe Val Val Ala
2325 2330 2335
Thr Leu Glu Ala Leu Ser Trp His Leu Ile His Glu Gln Ile Pro Leu
2340 2345 2350
Ser Leu Asp Leu Gln Ala Gly Leu Asp Cys Cys Cys Leu Ala Leu Gln
2355 2360 2365
Leu Pro Gly Leu Trp Ser Val Val Ser Ser Thr Glu Phe Val Thr His
2370 2375 2380
Ala Cys Ser Leu Ile Tyr Cys Val His Phe Ile Leu Glu Ala Val Ala
2385 2390 2395 2400
Val Gln Pro Gly Glu Gln Leu Leu Ser Pro Glu Arg Arg Thr Asn Thr
2405 2410 2415
Pro Lys Ala Ile Ser Glu Glu Glu Glu Glu Val Asp Pro Asn Thr Gln
2420 2425 2430
Asn Pro Lys Tyr Ile Thr Ala Ala Cys Glu Met Val Ala Glu Met Val
2435 2440 2445
Glu Ser Leu Gln Ser Val Leu Ala Leu Gly His Lys Arg Asn Ser Gly
2450 2455 2460
Val Pro Ala Phe Leu Thr Pro Leu Leu Arg Asn Ile Ile Ile Ser Leu
2465 2470 2475 2480
Ala Arg Leu Pro Leu Val Asn Ser Tyr Thr Arg Val Pro Pro Leu Val
2485 2490 2495
Trp Lys Leu Gly Trp Ser Pro Lys Pro Gly Gly Asp Phe Gly Thr Ala
2500 2505 2510
Phe Pro Glu Ile Pro Val Glu Phe Leu Gln Glu Lys Glu Val Phe Lys
2515 2520 2525
Glu Phe Ile Tyr Arg Ile Asn Thr Leu Gly Trp Thr Ser Arg Thr Gln
2530 2535 2540
Phe Glu Glu Thr Trp Ala Thr Leu Leu Gly Val Leu Val Thr Gln Pro
2545 2550 2555 2560
Leu Val Met Glu Gln Glu Glu Ser Pro Pro Glu Glu Asp Thr Glu Arg
2565 2570 2575
Thr Gln Ile Asn Val Leu Ala Val Gln Ala Ile Thr Ser Leu Val Leu
2580 2585 2590

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Ser Ala Met Thr Val Pro Val Ala Gly Asn Pro Ala Val Ser Cys Leu
2595                2600                2605
Glu Gln Gln Pro Arg Asn Lys Pro Leu Lys Ala Leu Asp Thr Arg Phe
2610                2615                2620
Gly Arg Lys Leu Ser Ile Ile Arg Gly Ile Val Glu Gln Glu Ile Gln
2625                2630                2635                2640
Ala Met Val Ser Lys Arg Glu Asn Ile Ala Thr His His Leu Tyr Gln
2645                2650                2655
Ala Trp Asp Pro Val Pro Ser Leu Ser Pro Ala Thr Thr Gly Ala Leu
2660                2665                2670
Ile Ser His Glu Lys Leu Leu Leu Gln Ile Asn Pro Glu Arg Glu Leu
2675                2680                2685
Gly Ser Met Ser Tyr Lys Leu Gly Gln Val Ser Ile His Ser Val Trp
2690                2695                2700
Leu Gly Asn Ser Ile Thr Pro Leu Arg Glu Glu Glu Trp Asp Glu Glu
2705                2710                2715                2720
Glu Glu Glu Glu Ala Asp Ala Pro Ala Pro Ser Ser Pro Pro Thr Ser
2725                2730                2735
Pro Val Asn Ser Arg Lys His Arg Ala Gly Val Asp Ile His Ser Cys
2740                2745                2750
Ser Gln Phe Leu Leu Glu Leu Tyr Ser Arg Trp Ile Leu Pro Ser Ser
2755                2760                2765
Ser Ala Arg Arg Thr Pro Ala Ile Leu Ile Ser Glu Val Val Arg Ser
2770                2775                2780
Leu Leu Val Val Ser Asp Leu Phe Thr Glu Arg Asn Gln Phe Glu Leu
2785                2790                2795                2800
Met Tyr Val Thr Leu Thr Glu Leu Arg Arg Val His Pro Ser Glu Asp
2805                2810                2815
Glu Ile Leu Ala Gln Tyr Leu Val Pro Ala Thr Cys Lys Ala Ala Ala
2820                2825                2830
Val Leu Gly Met Asp Lys Ala Val Ala Glu Pro Val Ser Arg Leu Leu
2835                2840                2845
Glu Ser Thr Leu Arg Ser Ser His Leu Pro Ser Arg Val Gly Ala Leu
2850                2855                2860
His Gly Ile Leu Tyr Val Leu Glu Cys Asp Leu Leu Asp Asp Thr Ala
2865                2870                2875                2880
Lys Gln Leu Ile Pro Val Ile Ser Asp Tyr Leu Leu Ser Asn Leu Lys
2885                2890                2895
Gly Ile Ala His Cys Val Asn Ile His Ser Gln Gln His Val Leu Val
2900                2905                2910
Met Cys Ala Thr Ala Phe Tyr Leu Ile Glu Asn Tyr Pro Leu Asp Val
2915                2920                2925
Gly Pro Glu Phe Ser Ala Ser Ile Ile Gln Met Cys Gly Val Met Leu
2930                2935                2940
Ser Gly Ser Glu Glu Ser Thr Pro Ser Ile Ile Tyr His Cys Ala Leu
2945                2950                2955                2960
Arg Gly Leu Glu Arg Leu Leu Leu Ser Glu Gln Leu Ser Arg Leu Asp
2965                2970                2975
Ala Glu Ser Leu Val Lys Leu Ser Val Asp Arg Val Asn Val His Ser
2980                2985                2990
Pro His Arg Ala Met Ala Ala Leu Gly Leu Met Leu Thr Cys Met Tyr
2995                3000                3005
Thr Gly Lys Glu Lys Val Ser Pro Gly Arg Thr Ser Asp Pro Asn Pro
3010                3015                3020
Ala Ala Pro Asp Ser Glu Ser Val Ile Val Ala Met Glu Arg Val Ser
3025                3030                3035                3040
Val Leu Phe Asp Arg Ile Arg Lys Gly Phe Pro Cys Glu Ala Arg Val
3045                3050                3055
Val Ala Arg Ile Leu Pro Gln Phe Leu Asp Asp Phe Phe Pro Pro Gln
3060                3065                3070
Asp Ile Met Asn Lys Val Ile Gly Glu Phe Leu Ser Asn Gln Gln Pro
3075                3080                3085
Tyr Pro Gln Phe Met Ala Thr Val Val Tyr Lys Val Phe Gln Thr Leu
3090                3095                3100

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His Ser Thr Gly Gln Ser Ser Met Val Arg Asp Trp Val Met Leu Ser
3105          3110          3115          3120
Leu Ser Asn Phe Thr Gln Arg Ala Pro Val Ala Met Ala Thr Trp Ser
          3125          3130          3135
Leu Ser Cys Phe Phe Val Ser Ala Ser Thr Ser Pro Trp Val Ala Ala
          3140          3145          3150
Ile Leu Pro His Val Ile Ser Arg Met Gly Lys Leu Glu Gln Val Asp
          3155          3160          3165
Val Asn Leu Phe Cys Leu Val Ala Thr Asp Phe Tyr Arg His Gln Ile
          3170          3175          3180
Glu Glu Glu Leu Asp Arg Arg Ala Phe Gln Ser Val Leu Glu Val Val
3185          3190          3195          3200
Ala Ala Pro Gly Ser Pro Tyr His Arg Leu Leu Thr Cys Leu Arg Asn
          3205          3210          3215
Val His Lys Val Thr Thr Cys
          3220          3223

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<210> 1778
<211> 142
<212> PRT
<213> Homo sapiens

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```

<400> 1778
Asn Ser Arg Pro Ser Pro Ser Ala Ala Leu Val Glu Val Leu Leu Arg
1          5          10          15
Ser Gly Ser Thr Phe Pro His Thr Val Ser Gly Gly Trp Ala Ala Trp
          20          25          30
Gly Pro Trp Ser Ser Cys Ser Arg Asp Cys Glu Leu Gly Phe Arg Val
          35          40          45
Arg Lys Arg Thr Cys Thr Asn Pro Glu Pro Arg Asn Gly Gly Leu Pro
          50          55          60
Cys Val Gly Asp Ala Ala Glu Tyr Gln Asp Cys Asn Pro Gln Ala Cys
          65          70          75          80
Pro Val Arg Gly Ala Trp Ser Cys Trp Thr Ser Trp Ser Pro Cys Ser
          85          90          95
Ala Ser Cys Gly Gly His Tyr Gln Arg Thr Arg Ser Cys Thr Ser
          100          105          110
Pro Ala Pro Ser Pro Gly Glu Asp Ile Cys Leu Gly Leu His Thr Glu
          115          120          125
Glu Ala Leu Cys Ala Thr Gln Ala Cys Pro Glu Gly Trp Ser
          130          135          140          142

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<210> 1779
<211> 197
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(194)
<223> Xaa = any amino acid or nothing

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<400> 1779
Asp Ala Leu Asp Arg Arg Tyr Leu Glu Arg Cys His Pro Ala Ala Gly
1          5          10          15
Gly Trp Val Gly Glu Gly Glu Xaa Ala Leu Cys Gln Lys Thr Arg Phe
          20          25          30
Ser Gly Val Leu Glu Pro Pro Leu Pro Ser Leu Lys Asp Gly Gly Arg
          35          40          45

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Phe Pro Ala Trp Thr Xaa Arg Ser Cys Ser Lys Ser Leu Arg Ala Ala
 50          55          60
Phe Thr Ser Gln Phe Phe Pro Ser Arg Arg Ser Arg Ala Ser Pro Gly
 65          70          75          80
Ser Ala Pro Gly Asn Gly Gln Asn Leu Thr Glu Gln His Pro Cys Pro
          85          90          95
Gly Ser Cys Asp Pro Gln Val Leu Ser Ala Ser Trp Met Xaa Val Glu
          100          105          110
His Arg Ser Lys Phe Arg Pro Pro Pro Xaa Asn Ser Thr Ile Pro Pro
          115          120          125
Glu Ser Arg Ser Xaa Gln Gly Gly Thr Val Gln Thr Gly Gln His Ser
          130          135          140
Ser Gly Arg Glu Ala Gly Ser Trp Arg Ala Arg Gly Arg Asn Ala Gly
          145          150          155          160
Arg Arg Xaa Lys Gly Gly Gly Lys Ile Gly Thr Lys Gln Gly Ala Val
          165          170          175
Arg Ala Arg Lys Glu Cys Arg Gly Glu Met Ala Ser Gly Glu Thr Asp
          180          185          190
Ser Glu
          194

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<210> 1780
<211> 849
<212> PRT
<213> Homo sapiens

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<400> 1780
Phe Arg Met Arg Ile Phe Leu His Cys Pro Trp Asn Gln Gln Met Trp
 1          5          10          15
Lys Ile Trp Asn Leu Leu Glu Thr Ser Leu Glu Ser Cys Lys Ala His
          20          25          30
Leu Ser Ile Gln Lys Leu Leu Lys Glu Arg Gln Gln Leu Pro Val Phe
          35          40          45
Lys His Arg Asp Ser Ile Val Glu Thr Leu Lys Arg His Arg Val Val
          50          55          60
Val Val Ala Gly Glu Thr Gly Ser Gly Lys Ser Thr Gln Val Pro His
          65          70          75          80
Phe Leu Leu Glu Asp Leu Leu Leu Asn Glu Trp Glu Ala Ser Lys Cys
          85          90          95
Asn Ile Val Cys Thr Gln Pro Arg Arg Ile Ser Ala Val Ser Leu Ala
          100          105          110
Asn Arg Val Cys Asp Glu Leu Gly Cys Glu Asn Gly Pro Gly Gly Arg
          115          120          125
Asn Ser Leu Cys Gly Tyr Gln Ile Arg Met Glu Ser Arg Ala Cys Glu
          130          135          140
Ser Thr Arg Leu Leu Tyr Cys Thr Thr Gly Val Leu Leu Arg Lys Leu
          145          150          155          160
Gln Glu Asp Gly Leu Leu Ser Asn Val Ser His Met Phe Ile Val Asp
          165          170          175
Glu Val His Glu Arg Ser Val Gln Ser Asp Phe Leu Leu Ile Ile Leu
          180          185          190
Lys Glu Ile Leu Gln Lys Arg Ser Asp Leu His Leu Ile Leu Met Ser
          195          200          205
Ala Thr Val Asp Ser Glu Lys Phe Ser Thr Tyr Phe Thr His Cys Pro
          210          215          220
Ile Leu Arg Ile Ser Gly Arg Ser Tyr Pro Val Glu Val Phe His Leu
          225          230          235          240
Glu Asp Ile Ile Glu Glu Thr Gly Phe Val Leu Glu Lys Asp Ser Glu
          245          250          255
Tyr Cys Gln Lys Phe Leu Glu Glu Glu Glu Glu Val Thr Ile Asn Val
          260          265          270

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Thr Ser Lys Ala Gly Gly Ile Lys Lys Tyr Gln Glu Tyr Ile Pro Val
275 280 285
Gln Thr Gly Ala His Ala Asp Leu Asn Pro Phe Tyr Gln Lys Tyr Ser
290 295 300
Ser Arg Thr Gln His Ala Ile Leu Tyr Met Asn Pro His Lys Ile Asn
305 310 315 320
Leu Asp Leu Ile Leu Glu Leu Leu Ala Tyr Leu Asp Lys Ser Pro Gln
325 330 335
Phe Arg Asn Ile Glu Gly Ala Val Leu Ile Phe Leu Pro Gly Leu Ala
340 345 350
His Ile Gln Gln Leu Tyr Asp Leu Leu Ser Asn Asp Arg Arg Phe Tyr
355 360 365
Ser Glu Arg Tyr Lys Val Ile Ala Leu His Ser Ile Leu Ser Thr Gln
370 375 380
Asp Gln Ala Ala Ala Phe Thr Leu Pro Pro Pro Gly Val Arg Lys Ile
385 390 395 400
Val Leu Ala Thr Asn Ile Ala Glu Thr Gly Ile Thr Ile Pro Asp Val
405 410 415
Val Phe Val Ile Asp Thr Gly Arg Thr Lys Glu Asn Lys Tyr His Glu
420 425 430
Ser Ser Gln Met Ser Ser Leu Val Glu Thr Phe Val Ser Lys Ala Ser
435 440 445
Ala Leu Gln Arg Gln Gly Arg Ala Gly Arg Val Arg Asp Gly Phe Cys
450 455 460
Phe Arg Met Tyr Thr Arg Glu Arg Phe Glu Gly Phe Met Asp Tyr Ser
465 470 475 480
Val Pro Glu Ile Leu Arg Val Pro Leu Glu Glu Leu Cys Leu His Ile
485 490 495
Met Lys Cys Asn Leu Gly Ser Pro Glu Asp Phe Leu Ser Lys Ala Leu
500 505 510
Asp Pro Pro Gln Leu Gln Val Ile Ser Asn Ala Met Asn Leu Leu Arg
515 520 525
Lys Ile Gly Ala Cys Glu Leu Asn Glu Pro Lys Leu Thr Pro Leu Gly
530 535 540
Gln His Leu Ala Ala Leu Pro Val Asn Val Lys Ile Gly Lys Met Leu
545 550 555 560
Ile Phe Gly Ala Ile Phe Gly Cys Leu Asp Pro Val Ala Thr Leu Ala
565 570 575
Ala Val Met Thr Glu Lys Ser Pro Phe Thr Thr Pro Ile Gly Arg Lys
580 585 590
Asp Glu Ala Asp Leu Ala Lys Ser Ala Leu Ala Met Ala Asp Ser Asp
595 600 605
His Leu Thr Ile Tyr Asn Ala Tyr Leu Gly Trp Lys Lys Ala Arg Gln
610 615 620
Glu Gly Gly Tyr Arg Ser Glu Ile Thr Tyr Cys Arg Arg Asn Phe Leu
625 630 635 640
Asn Arg Thr Ser Leu Leu Thr Leu Glu Asp Val Lys Gln Glu Leu Ile
645 650 655
Lys Leu Val Lys Ala Ala Gly Phe Ser Ser Ser Thr Thr Ser Thr Ser
660 665 670
Trp Glu Gly Asn Arg Ala Ser Gln Thr Leu Ser Phe Gln Glu Ile Ala
675 680 685
Leu Leu Lys Ala Val Leu Val Ala Gly Leu Tyr Asp Asn Val Gly Lys
690 695 700
Ile Ile Tyr Thr Lys Ser Val Asp Val Thr Glu Lys Leu Ala Cys Ile
705 710 715 720
Val Glu Thr Ala Gln Gly Lys Ala Gln Val His Pro Ser Ser Val Asn
725 730 735
Arg Asp Leu Gln Thr His Gly Trp Leu Leu Tyr Gln Glu Lys Ile Arg
740 745 750
Tyr Ala Arg Val Tyr Leu Arg Glu Thr Thr Leu Ile Thr Pro Phe Pro
755 760 765
Val Leu Leu Phe Gly Gly Asp Ile Glu Val Gln His Arg Glu Arg Leu
770 775 780

```

```

Leu Ser Ile Asp Gly Trp Ile Tyr Phe Gln Ala Pro Val Lys Ile Ala
785          790          795          800
Val Ile Phe Lys Gln Leu Arg Val Leu Ile Asp Ser Val Leu Arg Lys
          805          810          815
Lys Leu Glu Asn Pro Lys Met Ser Leu Glu Asn Asp Lys Ile Leu Gln
          820          825          830
Ile Ile Thr Glu Leu Ile Lys Thr Glu Asn Asn
          835          840          843

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```

<210> 1781
<211> 147
<212> PRT
<213> Homo sapiens

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<221> misc_feature
<222> (1)...(146)
<223> Xaa = any amino acid or nothing

```

```

<400> 1781
Phe Arg Pro Ala Pro Gly His Val Gln Pro Xaa Gly Gly Ser Ser Ala
 1          5          10          15
Ala Ala Gly Gly Gly Leu Leu Ser His Pro Arg Pro Cys Gln Gln Pro
          20          25          30
Cys Pro Pro Ala Pro Ala Pro Ser Arg Pro Arg Ser Leu Gly Ser Leu
          35          40          45
Gly Gln Arg Val Pro Ala Ala Leu Ala Thr Ala Ala Gln Glu Leu Pro
          50          55          60
Ala Thr Leu Gly Gly Asp Gly Gly Lys Pro Ala Leu Thr Ala Gly Glu
          65          70          75          80
Ala Ala Leu Pro Gly Leu His Arg Ser Gly Val Pro Ala Ala Ala Ala
          85          90          95
Arg Cys Xaa Pro Cys Thr Ser Arg Pro Thr Xaa Ser Thr Leu Ser Pro
          100          105          110
Thr Gln Ala Ala Trp Trp Cys Arg Pro Ser Arg Arg Gln Gln Arg Gly
          115          120          125
Glu Ala Ser Thr Gly Gly Ala Ser Gly Arg Arg Cys Gly Ser Cys Phe
          130          135          140
Gln Val
145 146

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```

<210> 1782
<211> 137
<212> PRT
<213> Homo sapiens

```

```

<221> misc_feature
<222> (1)...(132)
<223> Xaa = any amino acid or nothing

```

```

<400> 1782
Gln Leu Arg Arg Leu Thr Leu Pro Asn Phe Lys Thr Tyr Tyr Ser Ser
 1          5          10          15
Xaa Ile Ile Glu Ile Ala Trp His Xaa Xaa Lys Asn Met Gln Ile Asp
          20          25          30
Gln Trp Phe Arg Arg Glu Ser Pro Glu Ile Asp Leu Cys Lys Tyr Ser
          35          40          45
Xaa Leu Ser Phe Asp Lys Glu Ala Lys Ala Ile Lys Trp Lys Glu Cys
          50          55          60

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```

Ser Leu Phe Asn Lys Trp Cys Tyr Lys Asn Trp Met Leu His Val Gln
65          70          75          80
Lys Lys Arg Ile Xaa Val Gln Thr Leu His Pro Ser Gln Lys Leu Lys
      85          90          95
Ser Lys Trp Ile Lys Asp Leu Asn Val Glu Cys Arg Ile Thr Lys Leu
      100        105        110
Leu Asp Gln Glu Tyr Pro Gly Asp Leu Gly Tyr Ser Arg Ala Leu Asn
      115        120        125
Ser Gly Ser Arg
      130        132

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<210> 1783
<211> 443
<212> PRT
<213> Homo sapiens

```

```

<400> 1783
Cys Leu Ala Pro Cys Ser Pro Gln Pro Glu Lys Asn Gly Met Gln Pro
1          5          10          15
Leu Leu Leu Leu Leu Pro Pro Leu Leu Tyr Gln Gln Leu Leu His Ser
      20          25          30
Ser Leu Gly Ala Pro Gly Glu Ser Thr Leu Leu Val Arg Thr Ser Lys
      35          40          45
Leu Leu Val Gly Leu Gly Leu Gln Leu Leu Val Trp Leu Leu Leu Gln
      50          55          60
Thr Arg Ser Leu Leu Ala Leu Gln Leu His Leu Thr Ser Ser Ala Pro
      65          70          75          80
Leu Leu Ala Ala Pro Thr Ala Val Cys Ser Cys Ser Arg Cys Ser Ala
      85          90          95
Pro Arg Ser Arg Cys Val Ala Arg Pro Ala Ala Arg Thr Gly Leu Pro
      100        105        110
Thr Pro Ala Pro Ala Ser Ser Pro Ala Pro Ala Ala Ser Pro Ala Pro
      115        120        125
Ala Ala Ser Pro Ala Pro Ala Glu Ser Thr Ala Pro Gln Pro Leu Ile
      130        135        140
Leu Leu Pro Lys Pro Pro Ala Pro Gly Ala Pro Pro Pro Arg Pro
      145        150        155        160
Gly Ala Pro Pro Pro Arg Pro Ala Ala Ser Pro Ser Pro Ala Ala Ser
      165        170        175
Pro Ala Pro Pro Ala Ala Ser Pro Val Leu Thr Ala Ser Pro Pro Leu
      180        185        190
Pro Ala Ala Ser Pro Ser Pro Ala Ala Ser Pro Ala Pro Pro Ala Ala
      195        200        205
Ser Pro Val Leu Thr Ala Ser Pro Pro Leu Pro Ala Ala Ser Pro Ser
      210        215        220
Pro Ala Ala Ser Pro Ala Pro Pro Ala Ala Ser Pro Val Leu Thr Ala
      225        230        235        240
Ser Pro Pro Leu Pro Ala Ala Ser Pro Ala Leu Ala Ala Ser Pro Val
      245        250        255
His Thr Ala Ser Pro Pro Val His Val Ala Ser Pro Pro Val His Thr
      260        265        270
Ala Ser Pro Pro Val His Val Ala Ser Pro Pro Val His Thr Ala Ser
      275        280        285
Pro Pro Val His Val Ala Ser Pro Pro Val His Thr Ala Ser Pro His
      290        295        300
Val His Val Ala Ser Pro Pro Val His Val Ala Ser Pro Pro Val His
      305        310        315        320
Val Ala Ser Pro Pro Val His Thr Ala Ser Pro Pro Val His Val Ala
      325        330        335
Ser Pro Pro Val His Thr Ala Ser Pro His Val His Val Ala Ser Pro
      340        345        350

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```

Pro Val His Thr Ala Ser Pro Pro Val His Val Ala Ser Pro Pro Val
      355      360      365
His Val Ala Ser Pro Pro Val His Val Ala Tyr Pro Pro Val His Val
      370      375      380
Ala Ser Pro Pro Val His Val Ala Ser Pro Pro Val His Val Ala Ser
385      390      395      400
Pro Pro Val Ser Cys Ser Gly Asp Ser Thr Ser Asp Cys Phe Pro Pro
      405      410      415
Gln Pro Gly Ala Val Phe Pro His Ser Leu Ala Pro Ser Leu Gly Gly
      420      425      430
Trp Ser His Leu Val Ala Ala Leu Pro
      435      440 441

```

```

<210> 1784
<211> 151
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(148)
<223> Xaa = any amino acid or nothing

```

```

<400> 1784
Gly Gly Val Asn Arg Pro Arg Ser Glu Thr Glu Gln Val Lys Thr Pro
1      5      10      15
Val Leu Ile Ser Ser Trp Asp Tyr Arg His Pro Pro Pro Arg Pro Ala
      20      25      30
Ser Phe Phe Val Phe Leu Val Xaa Thr Gly Phe Thr Ala Leu Ala Arg
      35      40      45
Met Val Leu Ile Ser Trp Pro Cys Asp Leu Pro Thr Ser Ala Ser Gln
      50      55      60
Ser Ala Gly Ile Thr Gly Val Arg His His Ala Arg Leu Leu Tyr Phe
      65      70      75      80
Glu Gln Glu Ser His Ser Val Thr Gln Ala Gly Trp Val Gln Trp His
      85      90      95
Asn Leu Gly Ser Leu Gln Pro Leu Ser Leu Glu Asp Arg Leu Ser Pro
      100     105     110
Gly Val Leu Gly Cys Ser Ala Leu Cys Arg Ser Gly Val Arg Thr Lys
      115     120     125
Phe Gly Ile Asn Met Val Thr Ser Arg Glu Arg Gly Thr Thr Arg Leu
      130     135     140
Pro Lys Glu Gly
145      148

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```

<210> 1785
<211> 1056
<212> PRT
<213> Homo sapiens

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```

<400> 1785
Met Ser Leu Val Arg Ala Ala Leu Glu Ala Leu Asp Glu Leu Asp Leu
1      5      10      15
Phe Gly Val Lys Gly Gly Pro Gln Ser Val Ile His Val Leu Ala Asp
      20      25      30
Glu Val Gln His Cys Gln Ser Ile Leu Asn Ser Leu Leu Pro Arg Ala
      35      40      45
Ser Thr Ser Lys Glu Val Asp Ala Ser Leu Leu Ser Val Val Ser Phe
      50      55      60

```

Pro Ala Phe Ala Val Glu Asp Ser Gln Leu Val Glu Leu Thr Lys Gln
 65 70 75 80
 Glu Ile Ile Thr Lys Leu Gln Gly Arg Tyr Gly Cys Cys Arg Phe Leu
 85 90 95
 Arg Asp Gly Tyr Lys Thr Pro Lys Glu Asp Pro Asn Arg Leu Tyr Tyr
 100 105 110
 Glu Asn Pro Ala Glu Leu Lys Leu Phe Glu Asn Ile Glu Cys Glu Trp
 115 120 125
 Pro Leu Phe Trp Thr Tyr Phe Ile Leu Asp Gly Val Phe Ser Gly Asn
 130 135 140
 Ala Glu Gln Val Gln Glu Tyr Lys Glu Ala Leu Glu Ala Val Leu Ile
 145 150 155 160
 Lys Gly Lys Asn Gly Val Pro Leu Leu Pro Glu Leu Tyr Ser Val Pro
 165 170 175
 Pro Asp Arg Val Asp Glu Glu Tyr Gln Asn Pro His Thr Val Asp Arg
 180 185 190
 Val Pro Met Gly Lys Leu Pro His Met Trp Gly Gln Ser Leu Tyr Ile
 195 200 205
 Leu Gly Ser Leu Met Ala Glu Gly Phe Leu Ala Pro Gly Glu Ile Asp
 210 215 220
 Pro Leu Asn Arg Arg Phe Ser Thr Val Pro Lys Pro Asp Val Val Val
 225 230 235 240
 Gln Val Tyr Pro Ser Leu Pro His Gly Cys Ser Ser Lys Ser Pro Ser
 245 250 255
 His Gln Cys Thr Ile Ile Ser Ile Arg Thr Thr Arg Lys Ile Thr Ala
 260 265 270
 Pro Val Ser Ile Leu Ala Glu Thr Glu Glu Ile Lys Thr Ile Leu Lys
 275 280 285
 Asp Lys Gly Ile Tyr Val Glu Thr Ile Ala Glu Val Tyr Pro Ile Arg
 290 295 300
 Val Gln Pro Ala Arg Ile Leu Ser His Ile Tyr Ser Ser Leu Glu Ile
 305 310 315 320
 Phe Leu Pro Phe Leu Asn Ser Val Ser Gly Cys Asn Asn Arg Met Lys
 325 330 335
 Leu Ser Gly Arg Pro Tyr Arg His Met Gly Val Leu Gly Thr Ser Lys
 340 345 350
 Leu Tyr Asp Ile Arg Lys Thr Ile Phe Thr Phe Thr Pro Gln Phe Ile
 355 360 365
 Asp Gln Gln Gln Phe Tyr Leu Ala Leu Asp Asn Lys Met Ile Val Glu
 370 375 380
 Met Leu Arg Thr Asp Leu Ser Tyr Leu Cys Ser Arg Trp Arg Met Thr
 385 390 395 400
 Gly Gln Pro Thr Ile Thr Phe Pro Ile Ser His Ser Met Leu Asp Glu
 405 410 415
 Asp Gly Thr Ser Leu Asn Ser Ser Ile Leu Ala Ala Leu Arg Lys Met
 420 425 430
 Gln Asp Gly Tyr Phe Gly Gly Ala Arg Val Gln Thr Gly Lys Leu Ser
 435 440 445
 Glu Phe Leu Thr Thr Ser Cys Cys Thr His Leu Ser Phe Met Asp Pro
 450 455 460
 Gly Pro Glu Gly Lys Leu Tyr Ser Glu Asp Tyr Asp Asp Asn Tyr Asp
 465 470 475 480
 Tyr Leu Glu Ser Gly Asn Trp Met Asn Asp Tyr Asp Ser Thr Ser His
 485 490 495
 Ala Arg Cys Gly Asp Glu Val Ala Arg Tyr Leu Asp His Leu Leu Ala
 500 505 510
 His Thr Ala Pro His Pro Lys Leu Ala Pro Thr Ser Gln Lys Gly Gly
 515 520 525
 Leu Asp Arg Phe Gln Ala Ala Val Gln Thr Thr Cys Asp Leu Met Ser
 530 535 540
 Leu Val Thr Lys Ala Lys Glu Leu His Val Gln Asn Val His Met Tyr
 545 550 555 560
 Leu Pro Thr Lys Leu Phe Gln Ala Ser Arg Pro Ser Phe Asn Leu Leu
 565 570 575

Asp Ser Pro His Pro Arg Gln Glu Asn Gln Val Pro Ser Val Arg Val
 580 585 590
 Glu Ile His Leu Pro Arg Asp Gln Ser Gly Glu Val Asp Phe Lys Ala
 595 600 605
 Leu Val Leu Gln Leu Lys Glu Thr Ser Ser Leu Gln Glu Gln Ala Asp
 610 615 620
 Ile Leu Tyr Met Leu Tyr Thr Met Lys Gly Pro Asp Trp Asn Thr Glu
 625 630 635 640
 Leu Tyr Asn Glu Arg Ser Ala Thr Val Arg Glu Leu Leu Thr Glu Leu
 645 650 655
 Tyr Gly Lys Val Gly Glu Ile Arg His Trp Gly Leu Ile Arg Tyr Ile
 660 665 670
 Ser Gly Ile Leu Arg Lys Lys Val Glu Ala Leu Asp Glu Ala Cys Thr
 675 680 685
 Asp Leu Leu Ser His Gln Lys His Leu Thr Val Gly Leu Pro Pro Glu
 690 695 700
 Pro Arg Glu Lys Thr Ile Ser Ala Pro Leu Pro Tyr Glu Ala Leu Thr
 705 710 715 720
 Gln Leu Ile Asp Glu Ala Ser Glu Gly Asp Met Ser Ile Ser Ile Leu
 725 730 735
 Thr Gln Glu Ile Met Val Tyr Leu Ala Met Tyr Met Arg Thr Gln Pro
 740 745 750
 Gly Leu Phe Ala Glu Met Phe Arg Leu Arg Ile Gly Leu Ile Ile Gln
 755 760 765
 Val Met Ala Thr Glu Leu Ala His Ser Leu Arg Cys Ser Ala Glu Glu
 770 775 780
 Ala Thr Glu Gly Leu Met Asn Leu Ser Pro Ser Ala Met Lys Asn Leu
 785 790 795 800
 Leu His His Ile Leu Ser Gly Lys Glu Phe Gly Val Glu Arg Ser Val
 805 810 815
 Arg Pro Thr Asp Ser Asn Val Ser Pro Ala Ile Ser Ile His Glu Ile
 820 825 830
 Gly Ala Val Gly Ala Thr Lys Thr Glu Arg Thr Gly Ile Met Gln Leu
 835 840 845
 Lys Ser Glu Ile Lys Gln Ser Pro Gly Thr Ser Met Thr Pro Ser Ser
 850 855 860
 Gly Ser Phe Pro Ser Ala Tyr Asp Gln Gln Ser Ser Lys Asp Ser Arg
 865 870 875 880
 Gln Gly Gln Trp Gln Arg Arg Arg Arg Leu Asp Gly Ala Leu Asn Arg
 885 890 895
 Val Pro Val Gly Phe Tyr Gln Lys Val Trp Lys Val Leu Gln Lys Cys
 900 905 910
 His Gly Leu Ser Val Glu Gly Phe Val Leu Pro Ser Ser Thr Thr Arg
 915 920 925
 Glu Met Thr Pro Gly Glu Ile Lys Phe Ser Val His Val Glu Ser Val
 930 935 940
 Leu Asn Arg Val Pro Gln Pro Glu Tyr Arg Gln Leu Leu Val Glu Ala
 945 950 955 960
 Ile Leu Val Leu Thr Met Leu Ala Asp Ile Glu Ile His Ser Ile Gly
 965 970 975
 Ser Ile Ile Ala Val Glu Lys Ile Val His Ile Ala Asn Asp Leu Phe
 980 985 990
 Leu Gln Glu Gln Lys Thr Leu Gly Ala Asp Asp Thr Met Leu Ala Lys
 995 1000 1005
 Asp Pro Ala Ser Gly Ile Cys Thr Leu Leu Tyr Asp Ser Ala Pro Ser
 1010 1015 1020
 Gly Arg Phe Gly Thr Met Thr Tyr Leu Ser Lys Ala Ala Thr Tyr
 1025 1030 1035 1040
 Val Gln Glu Phe Leu Pro His Ser Ile Cys Ala Met Gln
 1045 1050 1053

<211> 107
 <212> PRT
 <213> Homo sapiens
 <221> misc_feature
 <222> (1)...(107)
 <223> Xaa = any amino acid or nothing

<400> 1786
 Cys Pro Xaa Leu Thr Trp Glu Leu Leu Glu Val Lys Lys Ala Glu Val
 1 5 10 15
 Leu Gln Asp Ser Leu Asp Gly Arg Tyr Ser Thr Pro Ser Ser Cys Leu
 20 25 30
 Glu Gln Pro Asp Ser Cys Arg Pro Tyr Gly Arg Ser Phe Tyr Ala Leu
 35 40 45
 Glu Glu Lys His Val Ile Phe Ser Leu Asp Val Gly Glu Thr Asp Asn
 50 55 60
 Lys Gly Lys Gly Lys Thr Ile Arg Gly Ile Xaa Thr Phe Lys Gly Arg
 65 70 75 80
 Lys Gly Gly Thr Tyr Gln Arg Glu His Asp Ala Asn Pro Leu Ala Pro
 85 90 95
 Xaa Ser Ala Arg Ser Cys Trp Met Arg Lys Gly
 100 105 107

<210> 1787
 <211> 740
 <212> PRT
 <213> Homo sapiens

<400> 1787
 Ala Val Arg Ala Glu Pro Gly Leu Glu Glu Leu Ser Ser Gly Leu Arg
 1 5 10 15
 Ala His Ser Pro Ser Ala Thr Thr Val Cys Glu Pro Glu Ala Gln Gly
 20 25 30
 Ser Ala Ser Gly Cys Arg Tyr Ala Ala His Pro His Trp Gly Leu Gly
 35 40 45
 Gly Ala Ala Ala Ala Gly Gly Ser Trp Glu Pro Gln Pro Pro Arg Pro
 50 55 60
 Val Cys Glu Pro Ala Gly Arg Gly Lys Pro His Pro Pro Ala Ala Pro
 65 70 75 80
 Arg Ser Pro Leu Leu Pro Gly Ser Arg Arg Arg Pro His Ala Ala Gln
 85 90 95
 Pro Gly Ala Arg Ala Arg Thr Ser Pro Pro Pro Ala Ser Ala Arg Asn
 100 105 110
 Met Ala Ala Arg Pro Ala Ala Thr Leu Ala Trp Ser Leu Leu Leu Leu
 115 120 125
 Ser Ser Ala Leu Leu Arg Glu Gly Cys Arg Ala Arg Phe Val Ala Glu
 130 135 140
 Arg Asp Ser Glu Asp Asp Gly Glu Glu Pro Val Val Phe Pro Glu Ser
 145 150 155 160
 Pro Leu Gln Ser Pro Thr Val Leu Val Ala Val Leu Ala Arg Asn Ala
 165 170 175
 Ala His Thr Leu Pro His Phe Leu Gly Cys Leu Glu Arg Leu Asp Tyr
 180 185 190
 Pro Lys Ser Arg Met Ala Ile Trp Ala Ala Thr Asp His Asn Val Asp
 195 200 205
 Asn Thr Thr Glu Ile Phe Arg Glu Trp Leu Lys Asn Val Gln Arg Leu
 210 215 220
 Tyr His Tyr Val Glu Trp Arg Pro Met Asp Glu Pro Glu Ser Tyr Pro
 225 230 235 240

Asp Glu Ile Gly Pro Lys His Trp Pro Thr Ser Arg Phe Ala His Val
 245 250 255
 Met Lys Leu Arg Gln Ala Ala Leu Arg Thr Ala Arg Glu Lys Trp Ser
 260 265 270
 Asp Tyr Ile Leu Phe Ile Asp Val Asp Asn Phe Leu Thr Asn Pro Gln
 275 280 285
 Thr Leu Asn Leu Leu Ile Ala Glu Asn Lys Thr Ile Val Ala Pro Met
 290 295 300
 Leu Glu Ser Arg Gly Leu Tyr Ser Asn Phe Trp Cys Gly Ile Thr Pro
 305 310 315 320
 Lys Gly Phe Tyr Lys Arg Thr Pro Asp Tyr Val Gln Ile Arg Glu Trp
 325 330 335
 Lys Arg Thr Gly Cys Phe Pro Val Pro Met Val His Ser Thr Phe Leu
 340 345 350
 Ile Asp Leu Arg Lys Glu Ala Ser Asp Lys Leu Thr Phe Tyr Pro Pro
 355 360 365
 His Gln Asp Tyr Thr Trp Thr Phe Asp Asp Ile Ile Val Phe Ala Phe
 370 375 380
 Ser Ser Arg Gln Ala Gly Ile Gln Met Tyr Leu Cys Asn Arg Glu His
 385 390 395 400
 Tyr Gly Tyr Leu Pro Ile Pro Leu Lys Pro His Gln Thr Leu Gln Glu
 405 410 415
 Asp Ile Glu Asn Leu Ile His Val Gln Ile Glu Ala Met Ile Asp Arg
 420 425 430
 Pro Pro Met Glu Pro Ser Gln Tyr Val Ser Val Val Pro Lys Tyr Pro
 435 440 445
 Asp Lys Met Gly Phe Asp Glu Ile Phe Met Ile Asn Leu Lys Arg Arg
 450 455 460
 Lys Gly Gln Gly Gly Asp Arg Trp Leu Arg Thr Leu Tyr Glu Gln Glu
 465 470 475 480
 Ile Glu Val Lys Ile Val Glu Ala Val Asp Gly Lys Ala Leu Asn Thr
 485 490 495
 Ser Gln Leu Lys Ala Leu Asn Ile Glu Met Leu Pro Gly Tyr Arg Asp
 500 505 510
 Pro Tyr Ser Ser Arg Pro Leu Thr Arg Gly Glu Ile Gly Cys Phe Leu
 515 520 525
 Ser His Tyr Ser Val Trp Lys Glu Val Ile Asp Arg Glu Leu Glu Lys
 530 535 540
 Thr Leu Val Ile Glu Asp Asp Val Arg Phe Glu His Gln Phe Lys Lys
 545 550 555 560
 Lys Leu Met Lys Leu Met Asp Asn Ile Asp Gln Ala Gln Leu Asp Trp
 565 570 575
 Glu Leu Ile Tyr Ile Gly Arg Lys Arg Met Gln Val Lys Glu Pro Glu
 580 585 590
 Lys Ala Val Pro Asn Val Ala Asn Leu Val Glu Ala Asp Tyr Ser Tyr
 595 600 605
 Trp Thr Leu Gly Tyr Val Ile Ser Leu Glu Gly Ala Gln Lys Leu Val
 610 615 620
 Gly Ala Asn Pro Phe Gly Lys Met Leu Pro Val Asp Glu Phe Leu Pro
 625 630 635 640
 Val Met Tyr Asn Lys His Pro Val Ala Glu Tyr Lys Glu Tyr Tyr Glu
 645 650 655
 Ser Arg Asp Leu Lys Ala Phe Ser Ala Glu Pro Leu Leu Ile Tyr Pro
 660 665 670
 Thr His Tyr Thr Gly Gln Pro Gly Tyr Leu Ser Asp Thr Glu Thr Ser
 675 680 685
 Thr Ile Trp Asp Asn Glu Thr Val Ala Thr Asp Trp Asp Arg Thr His
 690 695 700
 Ala Trp Lys Ser Arg Lys Gln Ser Arg Ile Tyr Ser Asn Ala Lys Asn
 705 710 715 720
 Thr Glu Ala Leu Pro Pro Thr Ser Leu Asp Thr Val Pro Ser Arg
 725 730 735
 Asp Glu Leu
 739

<210> 1788
 <211> 135
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(133)
 <223> Xaa = any amino acid or nothing

<400> 1788
 Ile Phe Phe Asn Ser Ser Ser Leu Phe Cys Arg Val Phe Cys Leu Phe
 1 5 10 15
 Leu Arg Trp Ser Phe Thr Leu Val Ala Gln Ala Arg Val Gln Xaa Cys
 20 25 30
 Asn Leu Ser Ser Leu Gln Pro Leu Pro Pro Gly Phe Lys Xaa Phe Ser
 35 40 45
 Cys Leu Ser Pro Pro Arg Ser Xaa Asp Tyr Arg Arg Pro Pro Pro Arg
 50 55 60
 Pro Ala Asn Phe Leu Tyr Phe Xaa Xaa Arg Gln Gly Phe Thr Val Leu
 65 70 75 80
 Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser Gly Asp Pro Pro Thr Ser
 85 90 95
 Ala Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His Arg Ala Trp Pro
 100 105 110
 Val His Ala Ile Ser Thr His Ile Ser Leu Val Lys Thr Arg Pro Ser
 115 120 125
 Leu Thr Thr Leu Gly
 130 133

<210> 1789
 <211> 465
 <212> PRT
 <213> Homo sapiens

<400> 1789
 Leu Leu Gln Pro Ala Met Arg Lys Ser Pro Gly Leu Ser Asp Cys Leu
 1 5 10 15
 Trp Ala Trp Ile Leu Leu Ser Thr Leu Thr Gly Arg Ser Tyr Gly
 20 25 30
 Gln Pro Ser Leu Gln Asp Glu Leu Lys Asp Asn Thr Thr Val Phe Thr
 35 40 45
 Arg Ile Leu Asp Arg Leu Leu Asp Gly Tyr Asp Asn Arg Leu Arg Pro
 50 55 60
 Gly Leu Gly Glu Arg Val Thr Glu Val Lys Thr Asp Ile Phe Val Thr
 65 70 75 80
 Ser Phe Gly Pro Val Ser Asp His Asp Met Glu Tyr Thr Ile Asp Val
 85 90 95
 Phe Phe Arg Gln Ser Trp Lys Asp Glu Arg Leu Lys Phe Lys Gly Pro
 100 105 110
 Met Thr Val Leu Arg Leu Asn Asn Leu Met Ala Ser Lys Ile Trp Thr
 115 120 125
 Pro Asp Thr Phe Phe His Asn Gly Lys Lys Ser Val Ala His Asn Met
 130 135 140
 Thr Met Pro Asn Lys Leu Leu Arg Ile Thr Glu Asp Gly Thr Leu Leu
 145 150 155 160
 Tyr Thr Met Arg Leu Thr Val Arg Ala Glu Cys Pro Met Ala Phe Gly
 165 170 175

```

Arg Asp Phe Pro Met Asp Ala His Ala Cys Pro Leu Lys Phe Gly Ser
      180      185      190
Tyr Ala Tyr Thr Arg Ala Glu Val Val Tyr Glu Trp Thr Arg Glu Pro
      195      200      205
Ala Arg Ser Val Val Val Ala Glu Asp Gly Ser Arg Leu Asn Gln Tyr
      210      215      220
Asp Leu Leu Gly Gln Thr Val Asp Ser Gly Ile Val Gln Ser Ser Thr
      225      230      235      240
Gly Glu Tyr Val Val Met Thr Thr His Phe His Leu Lys Arg Lys Ile
      245      250      255
Gly Tyr Phe Val Ile Gln Thr Tyr Leu Pro Cys Ile Met Thr Val Ile
      260      265      270
Leu Ser Gln Val Ser Phe Trp Leu Asn Arg Glu Ser Val Pro Ala Arg
      275      280      285
Thr Val Phe Gly Val Thr Thr Val Leu Thr Met Thr Thr Leu Ser Ile
      290      295      300
Ser Ala Arg Asn Ser Leu Pro Lys Val Ala Tyr Ala Thr Ala Met Asp
      305      310      315      320
Trp Phe Ile Ala Val Cys Tyr Ala Phe Val Phe Ser Ala Leu Ile Glu
      325      330      335
Phe Ala Thr Val Asn Tyr Phe Thr Lys Arg Gly Tyr Ala Trp Asp Gly
      340      345      350
Lys Ser Val Val Pro Glu Lys Pro Lys Lys Val Lys Asp Pro Leu Ile
      355      360      365
Lys Lys Asn Asn Thr Tyr Ala Pro Thr Ala Thr Ser Tyr Thr Pro Asn
      370      375      380
Leu Ala Arg Gly Asp Pro Gly Leu Ala Thr Ile Ala Lys Ser Ala Thr
      385      390      395      400
Ile Glu Pro Lys Glu Val Lys Pro Glu Thr Lys Pro Pro Glu Pro Lys
      405      410      415
Lys Thr Phe Asn Ser Val Ser Lys Ile Asp Arg Leu Ser Arg Ile Ala
      420      425      430
Phe Pro Leu Leu Phe Gly Ile Phe Asn Leu Val Tyr Trp Ala Thr Tyr
      435      440      445
Leu Asn Arg Glu Pro Gln Leu Lys Ala Pro Thr Pro His Gln
      450      455      460      462

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<210> 1790
<211> 116
<212> PRT
<213> Homo sapiens

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<221> misc_feature
<222> (1)...(116)
<223> Xaa = any amino acid or nothing

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<400> 1790
Ser Thr Ser Ser Cys Phe Pro Ala Ala Ala Ala Ile Met Arg Glu
  1      5      10      15
Ile Val His Leu Gln Ala Gly Gln Cys Gly Asn Gln Ile Gly Ala Lys
      20      25      30
Phe Trp Glu Val Ile Ser Asp Glu His Gly Ile Asp Pro Thr Gly Thr
      35      40      45
Tyr His Gly Asp Ser Asp Leu Gln Leu Glu Arg Ile Asn Val Tyr Tyr
      50      55      60
Asn Glu Ala Thr Gly Glu Ala Pro Val Pro Ser Pro Thr Ala Leu Arg
      65      70      75      80
Gly Pro Arg Gly Pro Cys Leu Gly Xaa Arg Pro Pro Val Pro Ala Gly
      85      90      95
Gly Lys Tyr Val Pro Arg Ala Val Leu Val Asp Met Glu Pro Gly Thr
      100      105      110

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Met Asp Ser Val
115 116

<210> 1791
<211> 583
<212> PRT
<213> Homo sapiens

<400> 1791
Phe Val Ala Val Ala Gly Ala Val Ser Gly Glu Pro Leu Val His Trp
1 5 10 15
Cys Thr Gln Gln Leu Arg Lys Thr Phe Gly Leu Asp Val Ser Glu Glu
20 25 30
Ile Ile Gln Tyr Val Leu Ser Ile Glu Ser Ala Glu Glu Ile Arg Glu
35 40 45
Tyr Val Thr Asp Leu Leu Gln Gly Asn Glu Gly Lys Lys Gly Gln Phe
50 55 60
Ile Glu Glu Leu Ile Thr Lys Trp Gln Lys Asn Asp Gln Glu Leu Ile
65 70 75 80
Ser Asp Pro Leu Gln Cys Phe Lys Lys Asp Glu Ile Leu Asp Gly
85 90 95
Gln Lys Ser Gly Asp His Leu Lys Arg Gly Arg Lys Lys Gly Arg Asn
100 105 110
Arg Gln Glu Val Pro Ala Phe Thr Glu Pro Asp Thr Thr Ala Glu Val
115 120 125
Lys Thr Pro Phe Asp Leu Ala Lys Ala Gln Glu Asn Ser Asn Ser Val
130 135 140
Lys Lys Lys Thr Lys Phe Val Asn Leu Tyr Thr Arg Glu Gly Gln Asp
145 150 155 160
Arg Leu Ala Val Leu Leu Pro Gly Arg His Pro Cys Asp Cys Leu Gly
165 170 175
Gln Lys His Lys Leu Ile Asn Asn Cys Leu Ile Cys Gly Arg Ile Val
180 185 190
Cys Glu Gln Glu Gly Ser Gly Pro Cys Leu Phe Cys Gly Thr Leu Val
195 200 205
Cys Thr His Glu Glu Gln Asp Ile Leu Arg Gly Asp Ser Asn Lys Ser
210 215 220
Gln Lys Leu Leu Lys Lys Leu Met Ser Gly Val Glu Asn Ser Gly Lys
225 230 235 240
Val Asp Ile Ser Thr Lys Asp Leu Leu Pro His Gln Glu Leu Arg Ile
245 250 255
Lys Ser Gly Leu Glu Lys Ala Ile Lys His Lys Asp Lys Leu Leu Glu
260 265 270
Phe Asp Arg Thr Ser Ile Arg Arg Thr Gln Val Ile Asp Asp Glu Ser
275 280 285
Asp Tyr Phe Ala Ser Asp Ser Asn Gln Trp Leu Ser Lys Leu Glu Arg
290 295 300
Glu Thr Leu Gln Lys Arg Glu Glu Glu Leu Arg Glu Leu Arg His Ala
305 310 315 320
Ser Arg Leu Ser Lys Lys Val Thr Ile Asp Phe Ala Gly Arg Lys Ile
325 330 335
Leu Glu Glu Glu Asn Ser Leu Ala Glu Tyr His Ser Arg Leu Asp Glu
340 345 350
Thr Ile Gln Ala Ile Ala Asn Gly Thr Leu Asn Gln Pro Leu Thr Lys
355 360 365
Leu Asp Arg Ser Ser Glu Glu Pro Leu Gly Val Leu Val Asn Pro Asn
370 375 380
Met Tyr Gln Ser Pro Pro Gln Trp Val Asp His Thr Gly Ala Ala Ser
385 390 395 400
Gln Lys Lys Ala Phe Arg Ser Ser Gly Phe Gly Leu Glu Phe Asn Ser
405 410 415

```

Phe Gln His Gln Leu Arg Ile Gln Asp Gln Glu Phe Gln Glu Gly Phe
      420      425      430
Asp Gly Gly Trp Cys Leu Ser Val His Gln Pro Trp Ala Ser Leu Leu
      435      440      445
Val Arg Gly Ile Lys Arg Val Glu Gly Arg Ser Trp Tyr Thr Pro His
      450      455      460
Arg Gly Arg Leu Trp Ile Ala Ala Thr Ala Lys Lys Pro Ser Pro Gln
      465      470      475      480
Glu Val Ser Glu Leu Gln Ala Thr Tyr Arg Leu Leu Arg Gly Lys Asp
      485      490      495
Val Glu Phe Pro Asn Asp Tyr Pro Ser Gly Cys Leu Leu Gly Cys Val
      500      505      510
Asp Leu Ile Asp Cys Leu Ser Gln Lys Gln Phe Lys Glu Gln Phe Pro
      515      520      525
Asp Ile Ser Gln Glu Ser Asp Ser Pro Phe Val Phe Ile Cys Lys Asn
      530      535      540
Pro Gln Glu Met Val Val Lys Phe Pro Ile Lys Gly Asn Pro Lys Ile
      545      550      555      560
Trp Lys Leu Asp Ser Lys Ile His Gln Gly Ala Lys Lys Gly Leu Met
      565      570      575
Lys Gln Asn Lys Ala Val
      580      582

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<210> 1792
<211> 681
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(670)
<223> Xaa = any amino acid or nothing

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<400> 1792
Met Pro Arg Ser His Thr Gly Glu Arg Leu Cys Glu Gly Lys Glu Gly
  1      5      10      15
Ser Gln Cys Ala Glu Asn Phe Ser Pro Asn Leu Ser Val Thr Lys Lys
      20      25      30
Thr Ala Gly Val Lys Pro Tyr Glu Cys Thr Ile Cys Gly Lys Ala Phe
      35      40      45
Met Arg Leu Ser Ser Leu Thr Arg His Met Arg Ser His Thr Ala Ile
      50      55      60
Arg Ala Ile Glu Lys Pro Tyr Lys Cys Lys Glu Cys Gly Arg Ala Phe
      65      70      75      80
Ser Leu Ser Gln Ile Leu Ser Lys His Glu Arg Ser His Thr Gly Glu
      85      90      95
Lys Pro Tyr Lys Cys Lys Gln Cys Gly Lys Thr Phe Ile Tyr His Gln
      100      105      110
Pro Phe Gln Arg His Glu Arg Thr His Ile Gly Glu Lys Pro Tyr Glu
      115      120      125
Cys Lys Gln Cys Gly Lys Ala Leu Ser Cys Ser Ser Ser Leu Arg Val
      130      135      140
His Glu Arg Ile His Thr Gly Glu Lys Pro Tyr Glu Cys Lys Gln Cys
      145      150      155      160
Gly Lys Ala Phe Ser Cys Ser Ser Ser Ile Arg Val His Glu Arg Thr
      165      170      175
His Thr Gly Glu Lys Pro Tyr Ala Cys Lys Glu Cys Gly Lys Ala Phe
      180      185      190
Ile Ser Thr Thr Ser Val Leu Thr His Met Ile Thr His Asn Gly Asp
      195      200      205
Arg Pro Tyr Lys Cys Lys Glu Cys Gly Lys Ala Phe Ile Phe Pro Ser
      210      215      220

```

Phe Leu Arg Val His Glu Arg Ile His Thr Gly Glu Lys Pro Tyr Lys
 225 230 235 240
 Cys Lys Gln Cys Gly Lys Ala Phe Arg Trp Ser Thr Ser Ile Gln Ile
 245 250 255
 His Glu Arg Ile His Thr Gly Glu Lys Pro Tyr Lys Cys Lys Glu Cys
 260 265 270
 Gly Lys Ser Phe Ser Ala Arg Pro Ala Phe Arg Val His Val Arg Val
 275 280 285
 His Thr Gly Glu Lys Pro Tyr Lys Cys Lys Glu Cys Gly Lys Ala Phe
 290 295 300
 Ser Arg Ile Ser Tyr Phe Arg Ile His Glu Arg Thr His Thr Gly Glu
 305 310 315 320
 Lys Pro Tyr Glu Cys Lys Lys Cys Gly Lys Thr Phe Asn Tyr Pro Leu
 325 330 335
 Asp Leu Lys Ile His Lys Arg Asn His Thr Gly Glu Lys Pro Tyr Glu
 340 345 350
 Cys Lys Glu Cys Ala Lys Thr Phe Ile Ser Leu Glu Asn Phe Arg Arg
 355 360 365
 His Met Ile Thr His Thr Gly Asp Gly Pro Tyr Lys Cys Arg Asp Cys
 370 375 380
 Gly Lys Val Phe Ile Phe Pro Ser Ala Leu Arg Thr His Glu Arg Thr
 385 390 395 400
 His Thr Gly Glu Lys Pro Tyr Glu Cys Lys Gln Cys Gly Lys Ala Phe
 405 410 415
 Ser Cys Ser Ser Tyr Ile Arg Ile His Lys Arg Thr His Thr Gly Glu
 420 425 430
 Lys Pro Tyr Glu Cys Lys Glu Cys Gly Lys Ala Phe Ile Tyr Pro Thr
 435 440 445
 Ser Phe Gln Gly His Met Arg Met His Thr Gly Glu Lys Pro Tyr Lys
 450 455 460
 Cys Lys Glu Cys Gly Lys Ala Phe Ser Leu His Ser Ser Phe Arg Arg
 465 470 475 480
 His Thr Arg Ile His Asn Tyr Glu Lys Pro Leu Glu Cys Xaa Gln Cys
 485 490 495
 Gly Lys Ala Phe Ser Val Ser Thr Ser Leu Lys Lys Pro Met Arg Asn
 500 505 510
 Ala Gln Ser Asp Arg Lys Leu Tyr Lys Cys Glu Lys Xaa Glu Lys Val
 515 520 525
 Phe Asn Ser Asn Arg Cys Phe Gln Ser Cys Glu Asn Ser His Xaa Arg
 530 535 540
 Glu Lys Ser Cys Gln Cys Lys Xaa Tyr Arg Lys Arg Asp Thr Arg Xaa
 545 550 555 560
 Phe Met Tyr Ser Gln Val Pro His Asn His Val Ser Val Ser Asn Gly
 565 570 575
 Pro Tyr Arg Cys Gly Ser Pro Ile Arg Leu Tyr Asn Thr Xaa Asn Ile
 580 585 590
 Ser Ile Asn Arg Asn Leu Val Ala Val Val Thr Pro Xaa Cys Ser Thr
 595 600 605
 Leu Phe Lys Cys Leu Trp Cys Trp Cys Lys Arg Ala Ala Leu Ser Val
 610 615 620
 Val Xaa Ile Val Gln Asp Ser Gly Arg Gly Arg Trp Leu Thr Pro Val
 625 630 635 640
 Ile Pro Ala Leu Trp Glu Ala Lys Ala Gly Gly Ser Arg Gly Gln Glu
 645 650 655
 Ile Lys Thr Ile Leu Ala Asn Thr Val Lys Pro His Leu Tyr
 660 665 670

<210> 1793

<211> 58

<212> PRT

<213> Homo sapiens

<221> misc_feature
 <222> (1)...(58)
 <223> Xaa = any amino acid or nothing

<400> 1793

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Asp Phe Tyr Glu Arg Lys Phe Glu Gln Phe Ile Glu Gly His Lys Gln
 1          5          10          15
Ile Val Asn Lys Trp Arg Asp Leu Leu Cys Ser Trp Lys Arg Lys Leu
          20          25          30
Ser Ile Ile Lys Lys Ser Val Leu Gln Asn Asn Leu Xaa Phe Ser Ala
          35          40          45
Ala Ser Met Arg Phe Gln Lys Val Phe Phe
          50          55          58

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<210> 1794
 <211> 475
 <212> PRT
 <213> Homo sapiens

<400> 1794

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His Leu Phe Phe Ser Leu Phe Leu Ala Ala Met Ala Met Thr Gly Ser
 1          5          10          15
Thr Pro Cys Ser Ser Met Ser Asn His Thr Lys Glu Arg Val Thr Met
          20          25          30
Thr Lys Val Thr Leu Glu Asn Phe Tyr Ser Asn Leu Ile Ala Gln His
          35          40          45
Glu Glu Arg Glu Met Arg Gln Lys Lys Leu Glu Lys Val Met Glu Glu
          50          55          60
Glu Gly Leu Lys Asp Glu Glu Lys Arg Leu Arg Arg Ser Ala His Ala
          65          70          75          80
Arg Lys Glu Thr Glu Phe Leu Arg Leu Lys Arg Thr Arg Leu Gly Leu
          85          90          95
Glu Asp Phe Glu Ser Leu Lys Val Ile Gly Arg Gly Ala Phe Gly Glu
          100          105          110
Val Arg Leu Val Gln Lys Lys Asp Thr Gly His Val Tyr Ala Met Lys
          115          120          125
Ile Leu Arg Lys Ala Asp Met Leu Glu Lys Glu Gln Val Gly His Ile
          130          135          140
Arg Ala Glu Arg Asp Ile Leu Val Glu Ala Asp Ser Leu Trp Val Val
          145          150          155          160
Lys Met Phe Tyr Ser Phe Gln Asp Lys Leu Asn Leu Tyr Leu Ile Met
          165          170          175
Glu Phe Leu Pro Gly Gly Asp Met Met Thr Leu Leu Met Lys Lys Asp
          180          185          190
Thr Leu Thr Glu Glu Glu Thr Gln Phe Tyr Ile Ala Glu Thr Val Leu
          195          200          205
Ala Ile Asp Ser Ile His Gln Leu Gly Phe Ile His Arg Asp Ile Lys
          210          215          220
Pro Asp Asn Leu Leu Leu Asp Ser Lys Gly His Val Lys Leu Ser Asp
          225          230          235          240
Phe Gly Leu Cys Thr Gly Leu Lys Lys Ala His Arg Thr Glu Phe Tyr
          245          250          255
Arg Asn Leu Asn His Ser Leu Pro Ser Asp Phe Thr Phe Gln Asn Met
          260          265          270
Asn Ser Lys Arg Lys Ala Glu Thr Trp Lys Arg Asn Arg Arg Gln Leu
          275          280          285
Ala Phe Ser Thr Val Gly Thr Pro Asp Tyr Ile Ala Pro Glu Val Phe
          290          295          300
Met Gln Thr Gly Tyr Asn Lys Leu Cys Asp Trp Trp Ser Leu Gly Val
          305          310          315          320

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Ile Met Tyr Glu Met Leu Ile Gly Tyr Pro Pro Phe Cys Ser Glu Thr
          325                      330          335
Pro Gln Glu Thr Tyr Lys Lys Val Met Asn Trp Lys Glu Thr Leu Thr
          340                      345          350
Phe Pro Pro Glu Val Pro Ile Ser Glu Lys Ala Lys Asp Leu Ile Leu
          355                      360          365
Arg Phe Cys Cys Glu Trp Glu His Arg Ile Gly Ala Pro Gly Val Glu
          370                      375          380
Glu Ile Lys Ser Asn Ser Phe Phe Glu Gly Val Asp Trp Glu His Ile
          385                      390          395          400
Arg Glu Arg Pro Ala Ala Ile Ser Ile Glu Ile Lys Ser Ile Asp Asp
          405                      410          415
Thr Ser Asn Phe Asp Glu Phe Pro Glu Ser Asp Ile Leu Lys Pro Thr
          420                      425          430
Val Ala Thr Ser Asn His Pro Glu Thr Asp Tyr Lys Asn Lys Asp Trp
          435                      440          445
Val Phe Ile Asn Tyr Thr Tyr Lys Arg Phe Glu Gly Leu Thr Ala Arg
          450                      455          460
Gly Ala Ile Pro Ser Tyr Met Lys Ala Ala Lys
          465                      470          475

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<210> 1795

<211> 2056

<212> PRT

<213> Homo sapiens

<400> 1795

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Arg Thr Arg Gly Ile Glu Lys Arg Phe Ala Tyr Ser Phe Leu Gln Gln
 1          5          10          15
Leu Ile Arg Tyr Val Asp Glu Ala His Gln Tyr Ile Leu Glu Phe Asp
          20          25          30
Gly Gly Ser Arg Gly Lys Gly Glu His Phe Pro Tyr Glu Gln Glu Ile
          35          40          45
Lys Phe Phe Ala Lys Val Val Leu Pro Leu Ile Asp Gln Tyr Phe Lys
          50          55          60
Asn His Arg Leu Tyr Phe Leu Ser Ala Ala Ser Arg Pro Leu Cys Ser
          65          70          75          80
Gly Gly His Ala Ser Asn Lys Glu Lys Glu Met Val Thr Ser Leu Phe
          85          90          95
Cys Lys Leu Gly Val Leu Val Arg His Arg Ile Ser Leu Phe Gly Asn
          100          105          110
Asp Ala Thr Ser Ile Val Asn Cys Leu His Ile Leu Gly Gln Thr Leu
          115          120          125
Asp Ala Arg Thr Val Met Lys Thr Gly Leu Glu Ser Val Lys Ser Ala
          130          135          140
Leu Arg Ala Phe Leu Asp Asn Ala Ala Glu Asp Leu Glu Lys Thr Met
          145          150          155          160
Glu Asn Leu Lys Gln Gly Gln Phe Thr His Thr Arg Asn Gln Pro Lys
          165          170          175
Gly Val Thr Gln Ile Ile Asn Tyr Thr Thr Val Ala Leu Leu Pro Met
          180          185          190
Leu Ser Ser Leu Phe Glu His Ile Gly Gln His Gln Phe Gly Glu Asp
          195          200          205
Leu Ile Leu Glu Asp Val Gln Val Ser Cys Tyr Arg Ile Leu Thr Ser
          210          215          220
Leu Tyr Ala Leu Gly Thr Ser Lys Ser Ile Tyr Val Glu Arg Gln Arg
          225          230          235          240
Ser Ala Leu Gly Glu Cys Leu Ala Ala Phe Ala Gly Ala Phe Pro Val
          245          250          255
Ala Phe Leu Glu Thr His Leu Asp Lys His Asn Ile Tyr Ser Ile Tyr
          260          265          270

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Asn Thr Lys Ser Ser Arg Glu Arg Ala Ala Leu Ser Leu Pro Thr Asn
 275 280 285
 Val Glu Asp Val Cys Pro Asn Ile Pro Ser Leu Glu Lys Leu Met Glu
 290 295 300
 Glu Ile Val Glu Leu Ala Glu Ser Gly Ile Arg Tyr Thr Gln Met Pro
 305 310 315 320
 His Val Met Glu Val Ile Leu Pro Met Leu Cys Ser Tyr Met Ser Arg
 325 330 335
 Trp Trp Glu His Gly Pro Glu Asn Asn Pro Glu Arg Ala Glu Met Cys
 340 345 350
 Cys Thr Ala Leu Asn Ser Glu His Met Asn Thr Leu Leu Gly Asn Ile
 355 360 365
 Leu Lys Ile Ile Tyr Asn Asn Leu Gly Ile Asp Glu Gly Ala Trp Met
 370 375 380
 Lys Arg Leu Ala Val Phe Ser Gln Pro Ile Ile Asn Lys Val Lys Pro
 385 390 395 400
 Gln Leu Leu Lys Thr His Phe Leu Pro Leu Met Glu Lys Leu Lys Lys
 405 410 415
 Lys Ala Ala Thr Val Val Ser Glu Glu Asp His Leu Lys Ala Glu Ala
 420 425 430
 Arg Gly Asp Met Ser Glu Ala Glu Leu Leu Ile Leu Asp Glu Phe Thr
 435 440 445
 Thr Leu Ala Arg Asp Leu Tyr Ala Phe Tyr Pro Leu Leu Ile Arg Phe
 450 455 460
 Gly Asp Tyr Asn Arg Ala Lys Trp Leu Lys Glu Pro Asn Pro Glu Ala
 465 470 475 480
 Glu Glu Leu Phe Arg Met Val Ala Glu Val Phe Ile Tyr Trp Ser Lys
 485 490 495
 Ser His Asn Phe Lys Arg Glu Glu Gln Asn Phe Val Val Gln Asn Glu
 500 505 510
 Ile Asn Asn Met Ser Phe Leu Ile Thr Asp Thr Lys Ser Lys Met Ser
 515 520 525
 Lys Ala Ala Val Ser Asp Gln Glu Arg Lys Lys Met Lys Arg Lys Gly
 530 535 540
 Asp Arg Tyr Ser Met Gln Thr Ser Leu Ile Val Ala Ala Leu Lys Arg
 545 550 555 560
 Leu Leu Pro Ile Gly Leu Asn Ile Cys Ala Pro Gly Asp Gln Glu Leu
 565 570 575
 Ile Ala Leu Ala Lys Asn Arg Phe Ser Leu Lys Asp Thr Glu Asp Glu
 580 585 590
 Val Arg Asp Ile Ile Arg Ser Asn Ile His Leu Gln Gly Lys Leu Glu
 595 600 605
 Asp Pro Ala Ile Arg Trp Gln Met Ala Leu Tyr Lys Asp Leu Pro Asn
 610 615 620
 Arg Thr Asp Asp Thr Ser Asp Pro Glu Lys Thr Val Glu Arg Val Leu
 625 630 635 640
 Asp Ile Ala Asn Val Leu Phe His Leu Glu Gln Lys Ser Lys Arg Val
 645 650 655
 Gly Arg Arg His Tyr Cys Leu Val Glu His Pro Gln Arg Ser Lys Lys
 660 665 670
 Ala Val Trp His Lys Leu Leu Ser Lys Gln Arg Lys Arg Ala Val Val
 675 680 685
 Ala Cys Phe Arg Met Ala Pro Leu Tyr Asn Leu Pro Arg His Arg Ala
 690 695 700
 Val Asn Leu Phe Leu Gln Gly Tyr Glu Lys Ser Trp Ile Glu Thr Glu
 705 710 715 720
 Glu His Tyr Phe Glu Asp Lys Leu Ile Glu Asp Leu Ala Lys Pro Gly
 725 730 735
 Ala Glu Pro Pro Glu Glu Asp Glu Gly Thr Lys Arg Val Asp Pro Leu
 740 745 750
 His Gln Leu Ile Leu Leu Phe Ser Arg Thr Ala Leu Thr Glu Lys Cys
 755 760 765
 Lys Leu Glu Glu Asp Phe Leu Tyr Met Ala Tyr Ala Asp Ile Met Ala
 770 775 780

Lys Ser Cys His Asp Glu Glu Asp Asp Asp Gly Glu Glu Glu Val Lys
 785 790 795 800
 Ser Phe Glu Glu Lys Glu Met Glu Lys Gln Lys Leu Leu Tyr Gln Gln
 805 810 815
 Ala Arg Leu His Asp Arg Gly Ala Ala Glu Met Val Leu Gln Thr Ile
 820 825 830
 Ser Ala Ser Lys Gly Glu Thr Gly Pro Met Val Ala Ala Thr Leu Lys
 835 840 845
 Leu Gly Ile Ala Ile Leu Asn Gly Gly Asn Ser Thr Val Gln Gln Lys
 850 855 860
 Met Leu Asp Tyr Leu Lys Glu Lys Lys Asp Val Gly Phe Phe Gln Ser
 865 870 875 880
 Leu Ala Gly Leu Met Gln Ser Cys Ser Val Leu Asp Leu Asn Ala Phe
 885 890 895
 Glu Arg Gln Asn Lys Ala Glu Gly Leu Gly Met Val Thr Glu Glu Gly
 900 905 910
 Ser Gly Glu Lys Val Leu Gln Asp Asp Glu Phe Thr Cys Asp Leu Phe
 915 920 925
 Arg Phe Leu Gln Leu Leu Cys Glu Gly His Asn Ser Asp Phe Gln Asn
 930 935 940
 Tyr Leu Arg Thr Gln Thr Gly Asn Asn Thr Thr Val Asn Ile Ile Ile
 945 950 955 960
 Ser Thr Val Asp Tyr Leu Leu Arg Val Gln Glu Ser Ile Ser Asp Phe
 965 970 975
 Tyr Trp Tyr Tyr Ser Gly Lys Asp Val Ile Asp Glu Gln Gly Gln Arg
 980 985 990
 Asn Phe Ser Lys Ala Ile Gln Val Ala Lys Gln Val Phe Asn Thr Leu
 995 1000 1005
 Thr Glu Tyr Ile Gln Gly Pro Cys Thr Gly Asn Gln Gln Ser Leu Ala
 1010 1015 1020
 His Ser Arg Leu Trp Asp Ala Val Val Gly Phe Leu His Val Phe Ala
 1025 1030 1035 1040
 His Met Gln Met Lys Leu Ser Gln Asp Ser Ser Gln Ile Glu Leu Leu
 1045 1050 1055
 Lys Glu Leu Met Asp Leu Gln Lys Asp Met Val Val Met Leu Leu Ser
 1060 1065 1070
 Met Leu Glu Gly Asn Val Val Asn Gly Thr Ile Gly Lys Gln Met Val
 1075 1080 1085
 Asp Met Leu Val Glu Ser Ser Asn Asn Val Glu Met Ile Leu Lys Phe
 1090 1095 1100
 Phe Asp Met Phe Leu Lys Leu Lys Asp Leu Thr Ser Ser Asp Thr Phe
 1105 1110 1115 1120
 Lys Glu Tyr Asp Pro Asp Gly Lys Gly Val Ile Phe Lys Arg Asp Phe
 1125 1130 1135
 His Lys Ala Met Glu Ser His Lys His Tyr Thr Gln Ser Glu Thr Glu
 1140 1145 1150
 Phe Leu Leu Ser Cys Ala Glu Thr Asp Glu Asn Glu Thr Leu Asp Tyr
 1155 1160 1165
 Glu Glu Phe Val Lys Arg Phe His Glu Pro Ala Lys Asp Ile Gly Phe
 1170 1175 1180
 Asn Val Ala Val Leu Leu Thr Asn Leu Ser Glu His Met Pro Asn Asp
 1185 1190 1195 1200
 Thr Arg Leu Gln Thr Phe Leu Glu Leu Ala Glu Ser Val Leu Asn Tyr
 1205 1210 1215
 Phe Gln Pro Phe Leu Gly Arg Ile Glu Ile Met Gly Ser Ala Lys Arg
 1220 1225 1230
 Ile Glu Arg Val Tyr Phe Glu Ile Ser Glu Ser Ser Arg Thr Gln Trp
 1235 1240 1245
 Glu Lys Pro Gln Val Lys Glu Ser Lys Arg Gln Phe Ile Phe Asp Val
 1250 1255 1260
 Val Asn Glu Gly Gly Glu Lys Glu Lys Met Glu Leu Phe Val Asn Phe
 1265 1270 1275 1280
 Cys Glu Asp Thr Ile Phe Glu Met Gln Leu Ala Ala Gln Ile Ser Glu
 1285 1290 1295

Ser Asp Leu Asn Glu Arg Ser Ala Asn Lys Glu Glu Ser Glu Lys Glu
 1300 1305 1310
 Arg Pro Glu Glu Gln Gly Pro Arg Met Ala Phe Phe Ser Ile Leu Thr
 1315 1320 1325
 Val Arg Ser Ala Leu Phe Ala Leu Arg Tyr Asn Ile Leu Thr Leu Met
 1330 1335 1340
 Arg Met Leu Ser Leu Lys Ser Leu Lys Lys Gln Met Lys Lys Val Lys
 1345 1350 1355 1360
 Lys Met Thr Val Lys Asp Met Val Thr Ala Phe Phe Ser Ser Tyr Trp
 1365 1370 1375
 Ser Ile Phe Met Thr Leu Leu His Phe Val Ala Ser Val Phe Arg Gly
 1380 1385 1390
 Phe Phe Arg Ile Ile Cys Ser Leu Leu Leu Gly Gly Ser Leu Val Glu
 1395 1400 1405
 Gly Ala Lys Lys Ile Lys Val Ala Glu Leu Leu Ala Asn Met Pro Asp
 1410 1415 1420
 Pro Thr Gln Asp Glu Val Arg Gly Asp Gly Glu Gly Glu Arg Lys
 1425 1430 1435 1440
 Pro Leu Glu Ala Ala Leu Pro Ser Glu Asp Leu Thr Asp Leu Lys Glu
 1445 1450 1455
 Leu Thr Glu Glu Ser Asp Leu Leu Ser Asp Ile Phe Gly Leu Asp Leu
 1460 1465 1470
 Lys Arg Glu Gly Gly Gln Tyr Lys Leu Ile Pro His Asn Pro Asn Ala
 1475 1480 1485
 Gly Leu Ser Asp Leu Met Ser Asn Pro Val Pro Met Pro Glu Val Gln
 1490 1495 1500
 Glu Lys Phe Gln Glu Gln Lys Ala Lys Glu Glu Glu Lys Glu Glu Lys
 1505 1510 1515 1520
 Glu Glu Thr Lys Ser Glu Pro Glu Lys Ala Glu Gly Glu Asp Gly Glu
 1525 1530 1535
 Lys Glu Glu Lys Ala Lys Glu Asp Lys Gly Lys Gln Lys Leu Arg Gln
 1540 1545 1550
 Leu His Thr His Arg Tyr Gly Glu Pro Glu Val Pro Glu Ser Ala Phe
 1555 1560 1565
 Trp Lys Lys Ile Ile Ala Tyr Gln Gln Lys Leu Leu Asn Tyr Phe Ala
 1570 1575 1580
 Arg Asn Phe Tyr Asn Met Arg Met Leu Ala Leu Phe Val Ala Phe Ala
 1585 1590 1595 1600
 Ile Asn Phe Ile Leu Leu Phe Tyr Lys Val Ser Thr Ser Ser Val Val
 1605 1610 1615
 Glu Gly Lys Glu Leu Pro Thr Arg Ser Ser Ser Glu Asn Ala Lys Val
 1620 1625 1630
 Thr Ser Leu Asp Ser Ser Ser His Arg Ile Ile Ala Val His Tyr Val
 1635 1640 1645
 Leu Glu Glu Ser Ser Gly Tyr Met Glu Pro Thr Val Arg Ile Leu Pro
 1650 1655 1660
 Ile Leu His Thr Val Ile Ser Phe Phe Cys Ile Ile Gly Tyr Tyr Cys
 1665 1670 1675 1680
 Leu Lys Val Pro Leu Val Ile Phe Lys Arg Glu Lys Glu Val Ala Arg
 1685 1690 1695
 Lys Leu Glu Phe Asp Gly Leu Tyr Ile Thr Glu Gln Pro Ser Glu Asp
 1700 1705 1710
 Asp Ile Lys Gly Gln Trp Asp Arg Leu Val Ile Asn Thr Gln Ser Phe
 1715 1720 1725
 Pro Asn Asn Tyr Trp Asp Lys Phe Val Lys Arg Lys Val Met Asp Lys
 1730 1735 1740
 Tyr Gly Glu Phe Tyr Gly Arg Asp Arg Ile Ser Glu Leu Leu Gly Met
 1745 1750 1755 1760
 Asp Lys Ala Ala Leu Asp Phe Ser Asp Ala Arg Glu Lys Lys Lys Pro
 1765 1770 1775
 Lys Lys Asp Ser Ser Leu Ser Ala Val Leu Asn Ser Ile Asp Val Lys
 1780 1785 1790
 Tyr Gln Met Trp Lys Leu Gly Val Val Phe Thr Asp Asn Ser Phe Leu
 1795 1800 1805

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Tyr Leu Ala Trp Tyr Met Thr Met Ser Val Leu Gly His Tyr Asn Asn
1810          1815          1820
Phe Phe Phe Ala Ala His Leu Leu Asp Ile Ala Met Gly Phe Lys Thr
1825          1830          1835          1840
Leu Arg Thr Ile Leu Ser Ser Val Thr His Asn Gly Lys Gln Leu Val
          1845          1850          1855
Leu Thr Val Gly Leu Leu Ala Val Val Val Tyr Leu Tyr Thr Val Val
          1860          1865          1870
Ala Phe Asn Phe Phe Arg Lys Phe Tyr Asn Lys Ser Glu Asp Gly Asp
          1875          1880          1885
Thr Pro Asp Met Lys Cys Asp Asp Met Leu Thr Cys Tyr Met Phe His
          1890          1895          1900
Met Tyr Val Gly Val Arg Ala Gly Gly Gly Ile Gly Asp Glu Ile Glu
1905          1910          1915          1920
Asp Pro Ala Gly Asp Glu Tyr Glu Ile Tyr Arg Ile Ile Phe Asp Ile,
          1925          1930          1935
Thr Phe Phe Phe Phe Val Ile Val Ile Leu Leu Ala Ile Ile Gln Gly
          1940          1945          1950
Leu Ile Ile Asp Ala Phe Gly Glu Leu Arg Asp Gln Gln Glu Gln Val
          1955          1960          1965
Lys Glu Asp Met Glu Thr Lys Cys Phe Ile Cys Gly Ile Gly Asn Asp
          1970          1975          1980
Tyr Phe Asp Thr Val Pro His Gly Phe Glu Thr His Thr Leu Gln Glu
1985          1990          1995          2000
His Asn Leu Ala Asn Tyr Leu Phe Phe Leu Met Tyr Leu Ile Asn Lys
          2005          2010          2015
Asp Glu Thr Glu His Thr Gly Gln Glu Ser Tyr Val Trp Lys Met Tyr
          2020          2025          2030
Gln Glu Arg Cys Trp Glu Phe Phe Pro Ala Gly Asp Cys Phe Arg Lys
          2035          2040          2045
Gln Tyr Glu Asp Gln Leu Asn
          2050          2055

```

<210> 1796

<211> 122

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(119)

<223> Xaa = any amino acid or nothing

<400> 1796

```

Ala Gly Leu Glu Leu Leu Asn Ser Asp Asp Pro Pro Ala Leu Ala Ser
1      5      10      15
Gln Ser Ala Gly Ile Thr Gly Val Thr Arg Thr Pro Ser Leu Phe Phe
          20      25      30
Xaa Asp Thr Val Leu Leu Cys Cys Ser Gly Trp Ser Ala Val Ala Pro
          35      40      45
Ser Arg Leu Thr Ala Ala Leu Phe Ser Xaa Ala Gln Ala Val Cys Leu
          50      55      60
Ser Leu Pro Arg Ser Trp Asp Tyr Arg Arg Trp Pro Pro His Pro Ala
          65      70      75      80
Asn Phe Cys Ile Phe Cys Arg Asp Glu Ser Leu Ala Met Leu Pro Arg
          85      90      95
Leu Val Ser Asn Ser Trp Thr Gln Ala Ile Leu Leu Pro Arg Pro Pro
          100      105      110
Lys Met Leu Gly Leu Gln Val
          115      119

```

<210> 1797
 <211> 180
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(177)
 <223> Xaa = any amino acid or nothing

<400> 1797
 Leu Phe Val Gly Gly Gly Pro Ile Cys Pro Glu Gly Ala Ser Gly Phe
 1 5 10 15
 Ala Pro Gly Pro Ala Pro Ala Pro Arg Val Gly Val Asp Ala Glu Val
 20 25 30
 Gly Arg Xaa Val Xaa Gly Ala Ala Ala Ser Gln Gly Ala Gly Ser Leu
 35 40 45
 Arg Pro Arg Pro Thr Gly Pro Gly His Pro Gly Ala Trp Leu Gln Val
 50 55 60
 Trp Gly Ala Ala Ala Val Cys Ala Gly Pro Ala Met Xaa Ala Val Arg
 65 70 75 80
 Ala Lys Arg Gly Pro Arg Ala Gly Xaa Glu Pro Asn Ser Pro Trp Arg
 85 90 95
 Ser Gly Val Leu Ala Ala Arg Ala Val Gly Ala Gly Pro Trp Pro Xaa
 100 105 110
 Pro Xaa Pro Gly Cys Ser Xaa Ala Arg Gly Pro Ser Ser Arg Ser Ala
 115 120 125
 Pro Gly Leu Ala Ser Gly Pro Ala Ala Pro Leu Leu Gln Gly Val His
 130 135 140
 Ser Ser Ala Gly Pro Leu Leu Cys Tyr Ile Asn Gly Thr Leu Ala Leu
 145 150 155 160
 Gly Leu Lys Pro Xaa Xaa Ala Trp Gly Trp Gly Glu Trp Arg Pro Lys
 165 170 175
 Gly
 177

<210> 1798
 <211> 858
 <212> PRT
 <213> Homo sapiens

<400> 1798
 Phe Arg Arg Lys Gly Gly Gly Gly Pro Lys Asp Phe Gly Ala Gly Leu
 1 5 10 15
 Lys Tyr Asn Ser Arg His Glu Lys Val Asn Gly Leu Glu Glu Gly Val
 20 25 30
 Glu Phe Leu Pro Val Asn Asn Val Lys Lys Val Glu Lys His Gly Pro
 35 40 45
 Gly Arg Trp Val Val Leu Ala Ala Val Leu Ile Gly Leu Leu Leu Val
 50 55 60
 Leu Leu Gly Ile Gly Phe Leu Val Trp His Leu Gln Tyr Arg Asp Val
 65 70 75 80
 Arg Val Gln Lys Val Phe Asn Gly Tyr Met Arg Ile Thr Asn Glu Asn
 85 90 95
 Phe Val Asp Ala Tyr Glu Asn Ser Asn Ser Thr Glu Phe Val Ser Leu
 100 105 110
 Ala Ser Lys Val Lys Asp Ala Leu Lys Leu Leu Tyr Ser Gly Val Pro
 115 120 125
 Phe Leu Gly Pro Tyr His Lys Glu Ser Ala Val Thr Ala Phe Ser Glu
 130 135 140

Gly Ser Val Ile Ala Tyr Tyr Trp Ser Glu Phe Ser Ile Pro Gln His
 145 150 155 160
 Leu Val Glu Glu Ala Glu Arg Val Met Ala Glu Glu Arg Val Val Met
 165 170 175
 Leu Pro Pro Arg Ala Arg Ser Leu Lys Ser Phe Val Val Thr Ser Val
 180 185 190
 Val Ala Phe Pro Thr Asp Ser Lys Thr Val Gln Arg Thr Gln Asp Asn
 195 200 205
 Ser Cys Ser Phe Gly Leu His Ala Arg Gly Val Glu Leu Met Arg Phe
 210 215 220
 Thr Thr Pro Gly Phe Pro Asp Ser Pro Tyr Pro Ala His Ala Arg Cys
 225 230 235 240
 Gln Trp Ala Leu Arg Gly Asp Ala Asp Ser Val Leu Ser Leu Thr Phe
 245 250 255
 Arg Ser Phe Asp Leu Ala Ser Cys Asp Glu Arg Gly Arg His Leu Val
 260 265 270
 Thr Val Tyr Asn Thr Leu Ser Pro Met Glu Pro His Ala Leu Val Gln
 275 280 285
 Leu Cys Gly Thr Tyr Pro Pro Ser Tyr Asn Leu Thr Phe His Ser Ser
 290 295 300
 Gln Asn Val Leu Leu Ile Thr Leu Ile Thr Asn Thr Glu Arg Arg His
 305 310 315 320
 Pro Gly Phe Glu Ala Thr Phe Phe Gln Leu Pro Arg Met Ser Ser Cys
 325 330 335
 Gly Gly Arg Leu Arg Lys Ala Gln Gly Thr Phe Asn Ser Pro Tyr Tyr
 340 345 350
 Pro Gly His Tyr Pro Pro Asn Ile Asp Cys Thr Trp Asn Ile Glu Val
 355 360 365
 Pro Asn Asn Gln His Val Lys Val Arg Phe Lys Phe Phe Tyr Leu Leu
 370 375 380
 Glu Pro Gly Val Pro Ala Gly Thr Cys Pro Lys Asp Tyr Val Glu Ile
 385 390 395 400
 Asn Gly Glu Lys Tyr Cys Gly Glu Arg Ser Gln Phe Val Val Thr Ser
 405 410 415
 Asn Ser Asn Lys Ile Thr Val Arg Phe His Ser Asp Gln Ser Tyr Thr
 420 425 430
 Asp Thr Gly Phe Leu Ala Glu Tyr Leu Ser Tyr Asp Ser Ser Asp Pro
 435 440 445
 Cys Pro Gly Gln Phe Thr Cys Arg Thr Gly Arg Cys Ile Arg Lys Glu
 450 455 460
 Leu Arg Cys Asp Gly Trp Ala Asp Cys Thr Asp His Ser Asp Glu Leu
 465 470 475 480
 Asn Cys Ser Cys Asp Ala Gly His Gln Phe Thr Cys Lys Asn Lys Phe
 485 490 495
 Cys Lys Pro Leu Phe Trp Val Cys Asp Ser Leu Asn Asp Cys Gly Asp
 500 505 510
 Asn Ser Asp Glu Gln Gly Cys Ser Cys Pro Ala Gln Thr Phe Arg Cys
 515 520 525
 Ser Asn Gly Lys Cys Leu Ser Lys Ser Gln Gln Cys Asn Gly Lys Asp
 530 535 540
 Asp Cys Gly Asp Gly Ser Asp Glu Ala Ser Cys Pro Lys Val Asn Val
 545 550 555 560
 Val Thr Cys Thr Lys His Thr Tyr Arg Cys Leu Asn Gly Leu Cys Leu
 565 570 575
 Ser Lys Gly Asn Pro Glu Cys Asp Gly Lys Glu Asp Cys Ser Asp Gly
 580 585 590
 Ser Asp Glu Lys Asp Cys Asp Cys Gly Leu Arg Ser Phe Thr Arg Gln
 595 600 605
 Ala Arg Val Val Gly Gly Thr Asp Ala Asp Glu Gly Glu Trp Pro Trp
 610 615 620
 Gln Val Ser Leu His Ala Leu Gly Gln Gly His Ile Cys Gly Ala Ser
 625 630 635 640
 Leu Ile Ser Pro Asn Trp Leu Val Ser Ala Ala His Cys Tyr Ile Asp
 645 650 655

Asp Arg Gly Phe Arg Tyr Ser Asp Pro Thr Gln Trp Thr Ala Phe Leu
 660 665 670
 Gly Leu His Asp Gln Ser Gln Arg Ser Ala Pro Gly Val Gln Glu Arg
 675 680 685
 Arg Leu Lys Arg Ile Ile Ser His Pro Phe Phe Asn Asp Phe Thr Phe
 690 695 700
 Asp Tyr Asp Ile Ala Leu Leu Glu Leu Glu Lys Pro Ala Glu Tyr Ser
 705 710 715 720
 Ser Met Val Arg Pro Ile Cys Leu Pro Asp Ala Ser His Val Phe Pro
 725 730 735
 Ala Gly Lys Ala Ile Trp Val Thr Gly Trp Gly His Thr Gln Tyr Gly
 740 745 750
 Gly Thr Gly Ala Leu Ile Leu Gln Lys Gly Glu Ile Arg Val Ile Asn
 755 760 765
 Gln Thr Thr Cys Glu Asn Leu Leu Pro Gln Gln Ile Thr Pro Arg Met
 770 775 780
 Met Cys Val Gly Phe Leu Ser Gly Gly Val Asp Ser Cys Gln Gly Asp
 785 790 795 800
 Ser Gly Gly Pro Leu Ser Ser Val Glu Ala Asp Gly Arg Ile Phe Gln
 805 810 815
 Ala Gly Val Val Ser Trp Gly Asp Gly Cys Ala Gln Arg Asn Lys Pro
 820 825 830
 Gly Val Tyr Thr Arg Leu Pro Leu Phe Arg Asp Trp Ile Lys Glu Asn
 835 840 845
 Thr Gly Val
 850 851

<210> 1799
 <211> 204
 <212> PRT
 <213> Homo sapiens

<400> 1799
 Phe Val Ser Gly Ser Pro Trp Arg Met Asp Gly Ser Thr Glu Arg Leu
 1 5 10 15
 Glu Ala Arg Arg Pro Ala Gly Arg Leu Pro Trp Ser Ser Arg Gln Glu
 20 25 30
 Met Thr Arg Arg Pro Ser Leu Met Ala Gly Arg Gln His Gly Trp Ser
 35 40 45
 Ala Gln Gln Ser Ala Thr Val Ala Asn Pro Val Pro Gly Ala Asn Pro
 50 55 60
 Asp Leu Leu Pro His Phe Leu Gly Glu Pro Glu Asp Val Tyr Ile Val
 65 70 75 80
 Lys Asn Lys Pro Val Leu Leu Val Cys Lys Ala Val Pro Ala Thr Gln
 85 90 95
 Ile Phe Phe Lys Cys Asn Gly Glu Trp Val Arg Gln Val Asp His Val
 100 105 110
 Ile Glu Arg Ser Thr Asp Gly Ser Ser Gly Leu Pro Thr Met Glu Val
 115 120 125
 Arg Ile Asn Val Ser Arg Gln Gln Val Glu Lys Val Phe Gly Leu Glu
 130 135 140
 Glu Tyr Trp Cys Gln Cys Val Ala Trp Ser Ser Gly Thr Thr Lys
 145 150 155 160
 Ser Gln Lys Ala Tyr Ile Arg Ile Ala Tyr Leu Arg Lys Asn Phe Glu
 165 170 175
 Gln Glu Pro Leu Ala Lys Glu Val Ser Leu Glu Gln Gly Ile Val Leu
 180 185 190
 Pro Cys Arg Pro Pro Glu Gly Ile Pro Pro Ala Glu
 195 200 204

<210> 1800
 <211> 892
 <212> PRT
 <213> Homo sapiens

<400> 1800
 Met Glu Pro Ser Leu Gly Gln Gly Met Asp Leu Thr Cys Pro Phe Gly
 1 5 10 15
 Val Ser Pro Ala Cys Gly Ala Gln Ala Ser Trp Ser Ile Phe Gly Ala
 20 25 30
 Asp Ala Ala Glu Val Pro Gly Thr Arg Gly His Ser Gln Gln Glu Ala
 35 40 45
 Ala Met Pro His Ile Pro Glu Asp Glu Glu Pro Pro Gly Glu Pro Gln
 50 55 60
 Ala Ala Gln Ser Pro Ala Gly Gln Gln Gly Pro Pro Thr Ala Gly Val
 65 70 75 80
 Ser Cys Ser Pro Thr Pro Thr Ile Val Leu Thr Gly Asp Ala Thr Ser
 85 90 95
 Pro Glu Gly Glu Thr Asp Lys Asn Leu Ala Asn Arg Val His Ser Pro
 100 105 110
 His Lys Arg Leu Ser His Arg His Leu Lys Val Ser Thr Ala Ser Leu
 115 120 125
 Thr Ser Val Asp Pro Ala Gly His Ile Ile Asp Leu Val Asn Asp Gln
 130 135 140
 Leu Pro Asp Ile Ser Ile Ser Glu Glu Asp Lys Lys Lys Asn Leu Ala
 145 150 155 160
 Leu Leu Glu Glu Ala Lys Leu Val Ser Glu Arg Phe Leu Thr Arg Arg
 165 170 175
 Gly Arg Lys Ser Arg Ser Ser Pro Gly Asp Ser Pro Ser Ala Val Ser
 180 185 190
 Pro Asn Leu Ser Pro Ser Ala Ser Pro Thr Ser Ser Arg Ser Asn Ser
 195 200 205
 Leu Thr Val Pro Thr Pro Pro Glu Gly Asp Glu Ala Asp Val Ser Ser
 210 215 220
 Pro His Pro Gly Glu Pro Asn Val Pro Lys Gly Leu Ala Asp Arg Lys
 225 230 235 240
 Gln Asn Asp Gln Arg Lys Val Ser Gln Gly Arg Leu Ala Pro Arg Pro
 245 250 255
 Pro Pro Val Glu Lys Ser Lys Glu Ile Ala Ile Glu Gln Lys Glu Asn
 260 265 270
 Phe Asp Pro Leu Gln Tyr Pro Glu Thr Thr Pro Lys Gly Leu Ala Pro
 275 280 285
 Val Thr Asn Ser Ser Gly Lys Met Ala Leu Asn Ser Pro Gln Pro Gly
 290 295 300
 Pro Val Glu Ser Glu Leu Gly Lys Gln Leu Leu Lys Thr Gly Trp Glu
 305 310 315 320
 Gly Ser Pro Leu Pro Arg Ser Pro Thr Gln Asp Ala Ala Gly Val Gly
 325 330 335
 Pro Pro Ala Ser Gln Gly Arg Gly Pro Ala Gly Glu Pro Met Gly Pro
 340 345 350
 Glu Ala Gly Ser Lys Ala Glu Leu Pro Pro Thr Val Ser Arg Pro Pro
 355 360 365
 Leu Leu Arg Gly Leu Ser Trp Asp Ser Gly Pro Glu Glu Pro Gly Pro
 370 375 380
 Arg Leu Gln Lys Val Leu Ala Lys Leu Pro Leu Ala Glu Glu Glu Lys
 385 390 395 400
 Arg Phe Ala Gly Lys Ala Gly Gly Lys Leu Ala Lys Ala Pro Gly Leu
 405 410 415
 Lys Asp Phe Gln Ile Gln Val Gln Pro Val Arg Met Gln Lys Leu Thr
 420 425 430
 Lys Leu Arg Glu Glu His Ile Leu Met Arg Asn Gln Asn Leu Val Gly
 435 440 445

```

Leu Lys Leu Pro Asp Leu Ser Glu Ala Ala Glu Gln Glu Lys Gly Leu
450 455 460
Pro Ser Glu Leu Ser Pro Ala Ile Glu Glu Glu Glu Ser Lys Ser Gly
465 470 475 480
Leu Asp Val Met Pro Asn Ile Ser Asp Val Leu Leu Arg Lys Leu Arg
485 490 495
Val His Arg Ser Leu Pro Gly Ser Ala Pro Pro Leu Thr Glu Lys Glu
500 505 510
Val Glu Asn Val Phe Val Gln Leu Ser Ser Ala Phe Arg Asn Asp Ser
515 520 525
Tyr Thr Leu Glu Ser Arg Ile Asn Gln Ala Glu Arg Glu Arg Asn Leu
530 535 540
Thr Glu Glu Asn Thr Glu Lys Glu Leu Glu Asn Phe Lys Ala Ser Ile
545 550 555 560
Thr Ser Ser Ala Ser Leu Trp His His Cys Glu His Arg Glu Thr Tyr
565 570 575
Gln Lys Leu Leu Glu Asp Ile Ala Val Leu His Arg Leu Ala Ala Arg
580 585 590
Leu Ser Ser Arg Ala Glu Val Val Gly Ala Val Arg Gln Glu Lys Arg
595 600 605
Met Ser Lys Ala Thr Glu Val Met Met Gln Tyr Val Glu Asn Leu Lys
610 615 620
Arg Thr Tyr Glu Lys Asp His Ala Glu Leu Met Glu Phe Lys Lys Leu
625 630 635 640
Ala Asn Gln Asn Ser Ser Arg Ser Cys Gly Pro Ser Glu Asp Gly Val
645 650 655
Leu Arg Thr Ala Arg Ser Met Ser Leu Thr Leu Gly Lys Asn Met Pro
660 665 670
Arg Arg Arg Val Ser Val Ala Val Val Pro Lys Phe Asn Ala Leu Asn
675 680 685
Leu Pro Gly Gln Thr Pro Ser Ser Ser Ile Pro Ser Leu Pro Ala
690 695 700
Leu Ser Glu Ser Pro Asn Gly Lys Gly Ser Leu Pro Val Thr Ser Ala
705 710 715 720
Leu Pro Ala Leu Leu Glu Asn Gly Lys Thr Asn Gly Asp Pro Asp Cys
725 730 735
Glu Ala Ser Ala Pro Ala Leu Thr Leu Ser Cys Leu Glu Glu Leu Ser
740 745 750
Gln Glu Thr Lys Ala Arg Met Glu Glu Glu Ala Tyr Ser Lys Gly Phe
755 760 765
Gln Glu Gly Leu Lys Lys Thr Lys Glu Leu Gln Asp Leu Lys Glu Glu
770 775 780
Glu Glu Glu Gln Lys Ser Glu Ser Pro Glu Glu Pro Glu Glu Val Glu
785 790 795 800
Glu Thr Glu Glu Glu Lys Asp Pro Arg Ser Ser Lys Leu Glu Glu
805 810 815
Leu Val His Phe Leu Gln Val Met Tyr Pro Lys Leu Cys Gln His Trp
820 825 830
Gln Val Ile Trp Met Met Ala Ala Val Met Leu Val Leu Thr Val Val
835 840 845
Leu Gly Leu Tyr Asn Ser Tyr Asn Ser Cys Ala Glu Gln Ala Asp Gly
850 855 860
Pro Leu Gly Arg Ser Thr Cys Ser Ala Ala Gln Lys Asp Ser Trp Trp
865 870 875 880
Ser Ser Gly Leu Gln His Glu Gln Pro Thr Glu Gln
885 890 892

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<210> 1801
<211> 101
<212> PRT
<213> Homo sapiens

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```

<400> 1801
Gln Leu Ile Gln His Gln Thr Val His Thr Gly Arg Lys Leu Tyr Glu
 1              5              10              15
Cys Lys Glu Cys Gly Lys Ala Phe Asn Gln Gly Ser Thr Leu Ile Arg
      20              25              30
His Gln Arg Ile His Thr Gly Glu Lys Pro Tyr Glu Cys Lys Val Cys
      35              40              45
Gly Lys Ala Phe Arg Val Ser Ser Gln Leu Lys Gln His Gln Arg Ile
      50              55              60
His Thr Gly Glu Arg Pro Tyr Gln Cys Lys Glu Leu Lys Gly Arg Gly
      65              70              75              80
Ala Glu Met Leu Ala Val Leu Ala Val Lys Glu Gln Asn Arg Thr Pro
      85              90              95
Val Asn Tyr Gly Lys
      100 101

```

```

<210> 1802
<211> 175
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(175)
<223> Xaa = any amino acid or nothing

```

```

<400> 1802
Met Thr Cys Leu His Ser Ala Lys Ala Phe His Tyr Xaa Ser Ser Cys
 1              5              10              15
Ser Phe Ser Cys Glu Glu Gly Phe Ala Leu Ile Gly Pro Glu Val Val
      20              25              30
Gln Cys Thr Ala Leu Gly Val Trp Thr Ala Pro Ala Pro Val Cys Ile
      35              40              45
Ala Val Gln Cys Gln His Leu Glu Ala Leu Asn Glu Gly Thr Met Gly
      50              55              60
Xaa Asp Tyr Pro Phe Thr Ala Phe Ala Tyr Gly Ser Ser Cys Lys Tyr
      65              70              75              80
Glu Cys His Thr Val Tyr Arg Val Arg Gly Leu Asp Met Leu His Ser
      85              90              95
Arg Gly Cys Tyr Leu Trp Asn Gly His Phe Thr Thr Xaa Glu Ala Ile
      100              105              110
Ser Cys Glu Pro Leu Glu Arg Pro Cys His Xaa Ser Val Xaa Cys Ser
      115              120              125
Phe Ser Cys Glu Glu Gly Phe Ala Leu Ile Gly Pro Glu Val Val Gln
      130              135              140
Cys Thr Ala Leu Gly Val Trp Thr Ala Pro Ala Pro Val Cys Ile Ala
      145              150              155              160
Val Gln Cys Gln His Leu Glu Ala Leu Asn Glu Gly Thr Met Gly
      165              170              175

```

```

<210> 1803
<211> 175
<212> PRT
<213> Homo sapiens

```

```

<400> 1803
Ile Gln Ala Lys Gly Leu Gly Ile Trp His Val Pro Asn Lys Ser Pro
 1              5              10              15

```

```

Met Gln His Trp Arg Lys Gly Ser Leu Leu Arg Tyr Arg Thr Asp Thr
      20      25      30
Gly Phe Leu Gln Thr Leu Gly His Asn Leu Leu Gly Ile Tyr Gln Lys
      35      40      45
Tyr Pro Val Lys Tyr Gly Glu Gly Lys Cys Trp Thr Asp Asn Gly Pro
      50      55      60
Val Ile Pro Val Val Tyr Asp Phe Gly Asp Ala Gln Lys Thr Ala Ser
      65      70      75      80
Tyr Tyr Ser Pro Tyr Gly Gln Arg Glu Phe Thr Ala Gly Phe Val Gln
      85      90      95
Phe Arg Val Phe Asn Asn Glu Arg Ala Ala Asn Ala Leu Cys Ala Gly
      100      105      110
Met Arg Val Thr Gly Cys Asn Thr Glu His His Cys Ile Gly Gly Gly
      115      120      125
Gly Tyr Phe Pro Glu Ala Ser Pro Gln Gln Cys Gly Asp Phe Ser Gly
      130      135      140
Phe Asp Trp Ser Gly Tyr Gly Thr His Val Gly Tyr Ser Ser Ser Arg
      145      150      155      160
Glu Ile Thr Glu Ala Ala Val Leu Leu Phe Tyr Arg
      165      170      172

```

<210> 1804
 <211> 120
 <212> PRT
 <213> Homo sapiens

```

<400> 1804
Thr Gln Val His Pro Ala Met Leu Gly Leu Asp Glu Leu Gly Arg Ser
  1      5      10      15
Gly Cys Gly His Cys Thr Gln Ala Asp Leu Arg Phe Gly Asp Ala Ala
      20      25      30
Gly Arg Asp Pro Gly Gln Asp Asn Asp Arg Asn Thr Ala Glu Pro Ala
      35      40      45
Phe Pro Pro Pro Pro Arg Val Met Ala Ala Ala Ala Leu Arg Ala
      50      55      60
Pro Ala Gln Ser Ser Val Thr Phe Glu Asp Val Ala Val Asn Phe Ser
      65      70      75      80
Leu Glu Glu Trp Ser Leu Leu Asn Glu Ala Gln Gly Cys Leu Tyr His
      85      90      95
Asp Val Met Leu Glu Thr Leu Thr Leu Ile Ser Ser Leu Gly Lys Val
      100      105      110
Leu Ile Leu Asn Cys Asp Leu Ser
      115      120

```

<210> 1805
 <211> 137
 <212> PRT
 <213> Homo sapiens

```

<400> 1805
Ala Ala Ala Gly Arg Gly Ala Ser Gly Ala Leu Thr Gly Glu Gly Gly
  1      5      10      15
Gly Glu Gln Gly Arg Arg Val Gly Leu Gly Ser Arg Ala His Ser Leu
      20      25      30
Leu Leu Gly Pro Thr Phe Asn Ser Cys Gln Val Ser Ser Gln Pro Pro
      35      40      45
Arg Val Ala Gly Leu Gly Leu Pro Leu Lys His Glu Pro Ser Arg Pro
      50      55      60

```

```

Gln Pro Pro Ser Pro Arg Gly Pro Arg Thr Val Arg Ala Gly Val Pro
 65          70          75          80
Gly Ala His Pro Gln Asp Thr Pro Cys Pro Glu Phe Val Arg Pro Arg
          85          90          95
Lys Val Pro Leu Val Gly Glu Ala Pro Gly Leu Pro Pro Glu Glu Arg
          100          105          110
Ser Arg Gly Trp Arg Arg Asp Thr Pro Gly Leu Gln Glu Ser Arg Val
          115          120          125
Arg Ala Pro Ser Tyr Asp Asp Ile Thr
 130          135          137

```

```

<210> 1806
<211> 132
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(130)
<223> Xaa = any amino acid or nothing

```

```

<400> 1806
Gln Ile Val Ser Phe Asn Ser Tyr Leu Thr Leu Tyr Thr Lys Asn Asn
 1          5          10          15
Leu Lys Ser Met Lys Asp Leu Asn Val Asn Thr Glu Met Ile Lys Leu
          20          25          30
Leu Glu Leu Lys Asn Ile His Asn Leu Gly Xaa Ala Lys Phe Phe Leu
          35          40          45
Asn Xaa Ile Gln Lys Ala Leu Ile Lys Arg Lys Ile Leu Ile His Trp
          50          55          60
Pro Leu Ile Lys Ile Lys Ser Phe Cys Ser Leu Ser Asp Thr Ile Lys
 65          70          75          80
Lys Met Lys Arg Gln Thr Ile Val Trp Glu Gln Thr Phe Ile Ile His
          85          90          95
Ile Ser Val Lys Glu Leu Val Ser Arg Ile Tyr Glu Ala Phe Leu Gln
          100          105          110
Phe Asn Lys Thr Val Asn Arg Pro Val Phe Asp Ile Lys Lys Glu Gln
          115          120          125
Lys Phe
 130

```

```

<210> 1807
<211> 651
<212> PRT
<213> Homo sapiens

```

```

<400> 1807
Ser Glu Ala Lys Leu Gly Gly Pro Thr Gly Met Asp Leu Trp Gln Leu
 1          5          10          15
Leu Leu Thr Leu Ala Leu Ala Gly Ser Ser Asp Ala Phe Ser Gly Ser
          20          25          30
Glu Ala Thr Ala Ala Ile Leu Ser Arg Ala Pro Trp Ser Leu Gln Ser
          35          40          45
Val Asn Pro Gly Leu Lys Thr Asn Ser Ser Lys Glu Pro Lys Phe Thr
          50          55          60
Lys Cys Arg Ser Pro Glu Arg Glu Thr Phe Ser Cys His Trp Thr Asp
 65          70          75          80
Glu Val His His Gly Thr Lys Asn Leu Gly Pro Ile Gln Leu Phe Tyr
          85          90          95

```

Thr Arg Arg Asn Thr Gln Glu Trp Thr Gln Glu Trp Lys Glu Cys Pro
 100 105 110
 Asp Tyr Val Ser Ala Gly Glu Asn Ser Cys Tyr Phe Asn Ser Ser Phe
 115 120 125
 Thr Ser Ile Trp Ile Pro Tyr Cys Ile Lys Leu Thr Ser Asn Gly Gly
 130 135 140
 Thr Val Asp Glu Lys Cys Phe Ser Val Asp Glu Ile Val Gln Pro Asp
 145 150 155 160
 Pro Pro Ile Ala Leu Asn Trp Thr Leu Leu Asn Val Ser Leu Thr Gly
 165 170 175
 Ile His Ala Asp Ile Gln Val Arg Trp Glu Ala Pro Arg Asn Ala Asp
 180 185 190
 Ile Gln Lys Gly Trp Met Val Leu Glu Tyr Glu Leu Gln Tyr Lys Glu
 195 200 205
 Val Asn Glu Thr Lys Trp Lys Met Met Asp Pro Ile Leu Thr Thr Ser
 210 215 220
 Val Pro Val Tyr Ser Leu Lys Val Asp Lys Glu Tyr Glu Val Arg Val
 225 230 235 240
 Arg Ser Lys Gln Arg Asn Ser Gly Asn Tyr Gly Glu Phe Ser Glu Val
 245 250 255
 Leu Tyr Val Thr Leu Pro Gln Met Ser Gln Phe Thr Cys Glu Glu Asp
 260 265 270
 Phe Tyr Phe Pro Trp Leu Leu Ile Ile Phe Gly Ile Phe Gly Leu
 275 280 285
 Thr Val Met Leu Phe Val Phe Leu Phe Ser Lys Gln Gln Arg Ile Lys
 290 295 300
 Met Leu Ile Leu Pro Pro Val Pro Val Pro Lys Ile Lys Gly Ile Asp
 305 310 315 320
 Pro Asp Leu Leu Lys Glu Gly Lys Leu Glu Glu Val Asn Thr Ile Leu
 325 330 335
 Ala Ile His Asp Ser Tyr Lys Pro Glu Phe His Ser Asp Asp Ser Trp
 340 345 350
 Val Glu Phe Ile Glu Leu Asp Ile Asp Glu Pro Asp Glu Lys Thr Glu
 355 360 365
 Glu Ser Asp Thr Asp Arg Leu Leu Ser Ser Asp His Glu Lys Leu His
 370 375 380
 Ile Asn Leu Gly Val Lys Asp Gly Asp Ser Gly Arg Thr Ser Cys Cys
 385 390 395 400
 Glu Pro Asp Ile Leu Glu Thr Asp Phe Asn Ala His Asp Ile His Glu
 405 410 415
 Gly Thr Ser Glu Val Ala Gln Pro Gln Arg Leu Lys Gly Glu Ala Asp
 420 425 430
 Leu Leu Cys Leu Asp Gln Lys Asn Gln Asn Asn Ser Pro Tyr His Asp
 435 440 445
 Ala Cys Pro Ala Thr Gln Gln Pro Ser Val Ile Gln Ala Glu Lys Asn
 450 455 460
 Lys Pro Gln Pro Leu Pro Thr Glu Gly Ala Glu Ser Thr His Gln Ala
 465 470 475 480
 Ala His Ile Gln Leu Ser Asn Pro Ser Ser Leu Ser Asn Ile Asp Phe
 485 490 495
 Tyr Ala Gln Val Ser Asp Ile Thr Pro Ala Gly Ser Val Val Leu Ser
 500 505 510
 Pro Gly Gln Lys Asn Lys Ala Gly Met Ser Gln Cys Asp Met His Pro
 515 520 525
 Glu Met Val Ser Leu Cys Gln Glu Asn Phe Leu Met Asp Asn Ala Tyr
 530 535 540
 Phe Cys Glu Ala Asp Ala Lys Lys Cys Ile Pro Val Ala Pro His Ile
 545 550 555 560
 Lys Val Glu Ser His Ile Gln Pro Ser Leu Asn Gln Glu Asp Ile Tyr
 565 570 575
 Ile Thr Thr Glu Ser Leu Thr Thr Ala Ala Gly Ser Pro Gly Thr Gly
 580 585 590
 Glu His Val Pro Gly Ser Glu Met Pro Val Pro Asp Tyr Thr Ser Ile
 595 600 605

His Ile Val Gln Ser Pro Gln Gly Leu Ile Leu Asn Ala Thr Ala Leu
 610 615 620
 Pro Leu Pro Asp Lys Glu Phe Leu Ser Ser Cys Gly Tyr Val Ser Thr
 625 630 635 640
 Asp Gln Leu Asn Lys Ile Met Pro
 645 648

<210> 1808
 <211> 103
 <212> PRT
 <213> Homo sapiens

<400> 1808
 Thr Arg Ala Pro Ala Ser Gly Arg Ser Gly Ala Gly Leu Ala Leu Ser
 1 5 10 15
 Ala Asn Ala Pro Asp Ser Gly Gly His Pro Gly Ala Thr Glu Gly Pro
 20 25 30
 Ala Gly Ser Leu Ala His Ala Ser Gly Ser Ala Arg Gly Thr Trp Arg
 35 40 45
 Val Arg Gly Arg Gly Ser His Gly Trp Glu Arg Thr Val Gly Ala Gly
 50 55 60
 Gly Cys Ala Asn Pro Val Pro Ala Leu His Ser Cys Ala Ser Ala Pro
 65 70 75 80
 Arg Gly Thr Gly Arg Val Ser Ala Leu Gly Pro Lys Thr Gly Ser Ser
 85 90 95
 Pro Leu Ser Ser Pro Lys Gly
 100 103

<210> 1809
 <211> 258
 <212> PRT
 <213> Homo sapiens

<400> 1809
 Leu Gly Lys Tyr Asn Thr Ser Met Ala Leu Phe Asp Phe Val Leu His
 1 5 10 15
 Asn Ser Thr Gly Glu Ile Arg Tyr Ile Thr Glu Asp Asp Val Ile Gln
 20 25 30
 Ser Gln Asn Ala Leu Gly Lys Tyr Asn Thr Ser Met Ala Leu Phe Glu
 35 40 45
 Ser Asn Ser Phe Glu Lys Thr Ile Leu Glu Ser Pro Tyr Tyr Val Asp
 50 55 60
 Leu Asn Gln Thr Leu Phe Val Gln Val Ser Leu His Thr Ser Asp Pro
 65 70 75 80
 Asn Leu Val Val Phe Leu Asp Thr Cys Arg Ala Ser Pro Thr Ser Asp
 85 90 95
 Phe Ala Ser Pro Thr Tyr Asp Leu Ile Lys Ser Gly Cys Ser Arg Asp
 100 105 110
 Glu Thr Cys Lys Val Tyr Pro Leu Phe Gly His Tyr Gly Arg Phe Gln
 115 120 125
 Phe Asn Ala Phe Lys Phe Leu Arg Ser Met Ser Ser Val Tyr Leu Gln
 130 135 140
 Cys Lys Val Leu Ile Cys Asp Ser Ser Asp His Gln Ser Arg Cys Asn
 145 150 155 160
 Gln Gly Cys Val Ser Arg Ser Lys Arg Asp Ile Ser Ser Tyr Lys Trp
 165 170 175
 Lys Thr Asp Ser Ile Ile Gly Pro Ile Arg Leu Lys Arg Asp Arg Ser
 180 185 190

```

Ala Asn Gly Asn Ser Gly Phe Gln His Glu Thr His Ala Glu Glu Thr
      195                200                205
Pro Asn Gln Pro Phe Asn Ser Val His Leu Phe Ser Phe Met Val Leu
      210                215                220
Ala Leu Asn Val Val Thr Val Ala Thr Ile Thr Val Arg His Phe Val
      225                230                235                240
Asn Gln Arg Ala Asp Tyr Gln Tyr Gln Lys Leu Gln Asn Tyr
      245                250                254

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<210> 1810
<211> 100
<212> PRT
<213> Homo sapiens

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<221> misc_feature
<222> (1)...(97)
<223> Xaa = any amino acid or nothing

```

```

<400> 1810
Leu Gly Ile Leu Met Ser Pro Gln Val Glu Ala Gly Glu Ile Xaa Ala
  1              5              10              15
Leu Leu Thr Pro Pro Pro Gly Cys Met Gln Phe Ser Pro Leu Thr Leu
      20              25              30
Pro Lys Xaa Trp Val Ser Pro Gly Leu Thr Pro Pro Pro Pro Glu Val
      35              40              45
Pro Ser Val Phe Leu Val Glu Pro Gly Leu Pro His Ala Gly Gln Ala
      50              55              60
Gly Leu Asp Leu Leu Thr Ser Gly Asp Pro Pro Ala Ser Thr Ser Gln
      65              70              75              80
Ser Ala Arg Thr Thr Asp Val Ser His Arg Ala Gln Pro Leu Ala Ile
      85              90              95
Ser
97

```

```

<210> 1811
<211> 125
<212> PRT
<213> Homo sapiens

```

```

<221> misc_feature
<222> (1)...(124)
<223> Xaa = any amino acid or nothing

```

```

<400> 1811
Ile Gly Val Leu Ala Phe Glu Thr Gly Ser Cys Ser Val Thr Arg Leu
  1              5              10              15
Tyr Cys Ile Gly Ile Ile Met Pro His Cys Ser Leu Asp Leu Ala Gly
      20              25              30
Ser Thr Ser Ala Phe Arg Ile Ala Gly Thr Thr Ser Val His His His
      35              40              45
Pro Gln Leu Thr Phe Phe Phe Phe Trp Ile Glu Thr Gly Ser His Cys
      50              55              60
Val Val Gln Thr Gly Leu Xaa Leu Leu Ala Leu Ser Asn Pro Pro Ala
      65              70              75              80
Leu Ala Ser Gln Ile Ala Gly Ile Ser Gly Met Ser His Arg Ala Trp
      85              90              95
Pro Gly Leu Val Leu Tyr Ser Leu Glu Phe Ser Leu Leu Cys Ala Ser
      100              105              110

```


Gln Ser Leu Ile Met Leu Phe Thr Cys Tyr Asn Glu
 115 120 124

<210> 1812
 <211> 98
 <212> PRT
 <213> Homo sapiens
 <221> misc_feature
 <222> (1)...(95)
 <223> Xaa = any amino acid or nothing

<400> 1812
 Val Lys Pro Val Asn Gly Glu Ser Lys Arg Asp Xaa Gly Ala Asp Thr
 1 5 10 15
 Gln Thr Cys Glu Gly Glu Ala Asp Glu Gln Leu Gln Thr Asn Cys Tyr
 20 25 30
 Tyr Asp Ser Thr Lys Ser Phe Phe Tyr Ile Ser Cys Gly Xaa Lys Arg
 35 40 45
 Lys Pro Thr Trp Ala Glu Asn Arg Arg Leu Asn Ala Lys Met Phe Gly
 50 55 60
 Ile Pro Leu His Ser Asn Ser Asp Pro Trp Gly Tyr Glu Glu Arg Glu
 65 70 75 80
 Val Ile Gly Phe His Arg Ser Arg Val Ser Arg Gly His Gly Ser
 85 90 95

<210> 1813
 <211> 169
 <212> PRT
 <213> Homo sapiens
 <221> misc_feature
 <222> (1)...(169)
 <223> Xaa = any amino acid or nothing

<400> 1813
 Gln Arg Asn Pro Phe Ser Ala Gly His Pro Gln Arg Pro Pro Thr Ser
 1 5 10 15
 Gly Ser Gln Ser Glu Leu Leu Ala Gln Pro Arg Leu Arg Pro Gly Arg
 20 25 30
 Lys Ser Ser Phe Ser Arg Asp Gln Asp Val Trp Xaa Ser Gln Ala Val
 35 40 45
 Pro Lys Arg Gln Xaa Gln Arg Asn Pro Phe Ser Ala Gly His Pro Gln
 50 55 60
 Arg Pro Pro Thr Ser Gly Ser Gln Ser Glu Leu Leu Ala Gln Pro Arg
 65 70 75 80
 Leu Arg Pro Gly Arg Lys Ser Ser Phe Ser Arg Asp Gln Asp Val Trp
 85 90 95
 Pro Gly Gln Lys Pro Arg Pro Ser Gln Gln His Gln Met Cys Ala
 100 105 110
 Ser Pro Thr Leu Gly Gln Arg Ser Pro Phe Ala Leu Glu Pro Val Pro
 115 120 125
 Ala Tyr His Gly Gly Arg Asp Pro Phe Ala Ser Ala Arg Pro Ser Pro
 130 135 140
 Val Gly Ile Pro Lys Pro Arg Ala Ala Pro Ala Gly Gly Gly Trp Arg
 145 150 155 160
 Arg Ile Arg Pro Lys Ser Ser Thr Lys
 165 169

<210> 1814
 <211> 651
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(641)
 <223> Xaa = any amino acid or nothing

<400> 1814
 Pro Val Ile Gln Arg Cys Ser Gln Pro Tyr Gly Phe Ser Leu Leu Ile
 1 5 10 15
 Ser Phe Phe Leu Lys Cys Val Ser Glu Thr Ser Gln Gln Pro Pro Ser
 20 25 30
 Arg Lys Val Phe Gln Leu Leu Pro Ser Phe Pro Thr Leu Thr Arg Ser
 35 40 45
 Lys Ser His Glu Ser Gln Leu Gly Asn Arg Ile Asp Asp Val Ser Ser
 50 55 60
 Met Arg Phe Asp Leu Ser His Gly Ser Pro Gln Met Val Arg Arg Asp
 65 70 75 80
 Ile Gly Leu Ser Val Thr His Arg Phe Ser Thr Lys Ser Trp Leu Ser
 85 90 95
 Gln Val Cys His Val Cys Gln Lys Ser Met Ile Phe Gly Val Lys Cys
 100 105 110
 Lys His Cys Arg Leu Lys Cys His Asn Lys Cys Thr Lys Glu Ala Pro
 115 120 125
 Ala Cys Arg Ile Ser Phe Leu Pro Leu Thr Arg Leu Arg Arg Thr Glu
 130 135 140
 Ser Val Pro Ser Asp Ile Asn Asn Pro Val Asp Arg Ala Ala Glu Pro
 145 150 155 160
 His Phe Gly Thr Leu Pro Lys Ala Leu Thr Lys Lys Glu His Pro Pro
 165 170 175
 Ala Met Asn His Leu Asp Ser Ser Ser Asn Pro Ser Ser Thr Thr Phe
 180 185 190
 Ser Thr Pro Ser Ser Pro Ala Pro Phe Pro Thr Ser Ser Asn Pro Ser
 195 200 205
 Ser Ala Thr Thr Pro Pro Asn Pro Ser Pro Gly Gln Arg Asp Ser Arg
 210 215 220
 Phe Asn Phe Pro Ser Cys Ala Tyr Phe Ile His His Arg Gln Gln Phe
 225 230 235 240
 Ile Phe Pro Asp Ile Ser Ala Phe Ala His Ala Ala Pro Leu Pro Glu
 245 250 255
 Ala Ala Asp Gly Thr Arg Leu Asp Asp Gln Pro Lys Ala Asp Val Leu
 260 265 270
 Glu Ala His Glu Ala Glu Ala Glu Glu Pro Glu Ala Gly Lys Ser Glu
 275 280 285
 Ala Glu Asp Asp Glu Asp Glu Val Asp Asp Leu Pro Ser Ser Arg Arg
 290 295 300
 Pro Trp Arg Gly Pro Ile Ser Arg Lys Ala Ser Gln Thr Ser Val Tyr
 305 310 315 320
 Leu Gln Glu Trp Asp Ile Pro Phe Glu Gln Val Glu Leu Gly Glu Pro
 325 330 335
 Ile Gly Gln Gly Arg Trp Gly Arg Val His Arg Gly Arg Trp His Gly
 340 345 350
 Glu Val Ala Ile Arg Leu Leu Glu Met Asp Gly His Asn Gln Asp His
 355 360 365
 Leu Lys Leu Phe Lys Lys Glu Val Met Asn Tyr Arg Gln Thr Arg His
 370 375 380
 Glu Asn Val Val Leu Phe Met Gly Ala Cys Met Asn Pro Pro His Leu
 385 390 395 400

```

Ala Ile Ile Thr Ser Phe Cys Lys Gly Arg Thr Leu His Ser Phe Val
      405      410      415
Arg Asp Pro Lys Thr Ser Leu Asp Ile Asn Lys Thr Arg Gln Ile Ala
      420      425      430
Gln Glu Ile Ile Lys Gly Met Gly Tyr Leu His Ala Lys Gly Ile Val
      435      440      445
His Lys Asp Leu Lys Ser Arg Asn Val Phe Tyr Asp Asn Gly Lys Val
      450      455      460
Val Ile Thr Asp Phe Gly Leu Phe Gly Ile Ser Gly Val Val Pro Glu
      465      470      475
Gly Arg Arg Glu Asn Gln Leu Lys Leu Ser His Asp Trp Leu Cys Tyr
      485      490      495
Leu Ala Pro Glu Ile Val Arg Glu Met Thr Pro Gly Lys Asp Glu Asp
      500      505      510
Gln Leu Pro Phe Ser Lys Ala Ala Asp Val Tyr Ala Phe Gly Thr Val
      515      520      525
Trp Tyr Glu Leu Gln Ala Arg Asp Trp Pro Leu Lys Asn Gln Ala Ala
      530      535      540
Glu Ala Ser Ile Trp Gln Ile Gly Ser Gly Glu Gly Met Lys Arg Val
      545      550      555
Leu Thr Ser Val Ser Leu Gly Lys Glu Val Ser Glu Asn Leu Ser Ala
      565      570      575
Cys Trp Ala Phe Asp Leu Gln Glu Arg Pro Ser Phe Ser Leu Leu Met
      580      585      590
Asp Met Leu Glu Lys Leu Pro Lys Leu Asn Arg Arg Leu Ser His Pro
      595      600      605
Gly His Phe Xaa Lys Ser Ala Asp Ile Asn Ser Ser Lys Val Val Pro
      610      615      620
Arg Phe Glu Arg Phe Gly Leu Gly Val Leu Glu Ser Ser Asn Pro Lys
      625      630      635
Met
      640
641

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<210> 1815
<211> 266
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(265)
<223> Xaa = any amino acid or nothing

```

```

<400> 1815
Ile Pro Ser Pro Ala Trp Trp Asn Ser Thr Trp Ala Asp Thr Phe Ser
  1      5      10      15
Leu Leu Leu Ala Leu Ala Val Ala Leu Tyr Leu Gly Tyr Tyr Trp Ala
      20      25      30
Cys Val Leu Gln Thr His Arg Ala Phe Cys Ala Ser Asn Thr Glu Asp
      35      40      45
Leu Glu Thr Val Val Asn His Ile Lys His Arg Tyr Pro Gln Ala Pro
      50      55      60
Leu Leu Ala Val Gly Ile Ser Phe Gly Gly Ile Leu Val Leu Asn His
      65      70      75      80
Leu Ala Gln Ala Arg Gln Ala Ala Gly Leu Val Ala Ala Leu Thr Leu
      85      90      95
Ser Ala Cys Trp Asp Ser Phe Glu Thr Thr Arg Ser Leu Glu Thr Pro
      100      105      110
Leu Asn Ser Leu Leu Phe Asn Gln Pro Leu Thr Ala Gly Leu Cys Gln
      115      120      125
Leu Val Glu Arg Leu Ser Tyr Glu Xaa Asp Leu Gln Ala Arg Thr Ile
      130      135      140

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Arg Gln Phe Asp Glu Arg Tyr Thr Ser Val Ala Phe Gly Tyr Gln Asp
145          150          155          160
Cys Val Thr Tyr Tyr Lys Ala Ala Ser Pro Arg Thr Lys Ile Asp Ala
          165          170          175
Ile Arg Ile Pro Val Leu Tyr Leu Ser Ala Ala Asp Asp Pro Phe Ser
          180          185          190
Thr Val Cys Ala Leu Pro Lys Gln Ala Ala Gln His Ser Pro Tyr Val
          195          200          205
Ala Leu Leu Ile Thr Ala Arg Gly Gly His Ile Gly Phe Leu Glu Gly
          210          215          220
Leu Leu Pro Trp Gln His Trp Tyr Met Ser Arg Leu Leu His Gln Tyr
225          230          235          240
Ala Lys Ala Ile Phe Gln Asp Pro Glu Gly Leu Pro Asp Leu Arg Ala
          245          250          255
Leu Leu Pro Ser Glu Asp Arg Asn Ser
          260          265

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<210> 1816
<211> 104
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(101)
<223> Xaa = any amino acid or nothing

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<400> 1816
Ser Ser Gln Tyr Ile Val Gln Ser Lys Thr Lys Ile Phe Leu Xaa Ala
1          5          10          15
Ala Arg Glu Lys Gln Arg His Thr Cys Arg Arg Phe Ser Ile Arg Leu
          20          25          30
Ser Ala Asn Ile Ser Ser Gln Thr Gly Glu Ala Arg Gly Gln Trp Pro
          35          40          45
Ser Val Phe Lys Val Leu Lys Glu Lys Lys Leu Ser Thr Lys Lys Ser
          50          55          60
Phe Gly Gln Lys Xaa Gly Arg Arg Lys Thr Phe Pro Asp Lys Gln Lys
          65          70          75          80
Leu Arg Glu Phe Asp Thr Thr Arg Pro Thr Ile Gln Glu Met Leu Thr
          85          90          95
Gly Val Leu Gln Gly
          100 101

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<210> 1817
<211> 543
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(542)
<223> Xaa = any amino acid or nothing

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<400> 1817
Glu Leu Pro Thr Pro Leu Ile Ala Ala His Gln Leu Tyr Asn Tyr Val
1          5          10          15
Ala Asp His Ala Ser Ser Tyr His Met Lys Pro Leu Arg Met Ala Arg
          20          25          30
Pro Gly Gly Pro Glu His Asn Glu Tyr Ala Leu Val Ser Ala Trp His
          35          40          45

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```

Ser Ser Gly Ser Tyr Leu Asp Ser Glu Gly Leu Arg His Gln Asp Asp
 50          55          60
Phe Asp Val Ser Leu Leu Val Cys His Cys Ala Ala Pro Phe Glu Glu
 65          70          75          80
Gln Gly Glu Ala Glu Arg His Val Leu Arg Leu Gln Phe Phe Val Val
          85          90          95
Leu Thr Ser Gln Arg Glu Leu Phe Pro Arg Leu Thr Ala Asp Met Arg
 100        105        110
Arg Phe Arg Lys Pro Pro Arg Leu Pro Pro Glu Pro Glu Ala Pro Gly
 115        120        125
Ser Ser Ala Gly Ser Pro Gly Glu Ala Ser Gly Leu Ile Leu Ala Pro
 130        135        140
Gly Pro Ala Pro Leu Phe Pro Pro Leu Ala Ala Glu Val Gly Met Ala
 145        150        155        160
Arg Ala Arg Leu Ala Gln Leu Val Arg Leu Ala Gly Gly His Cys Arg
          165        170        175
Arg Asp Thr Leu Trp Lys Arg Leu Phe Leu Leu Glu Pro Pro Gly Pro
          180        185        190
Asp Arg Leu Arg Leu Gly Gly Arg Leu Ala Leu Ala Glu Leu Glu Glu
 195        200        205
Leu Leu Glu Ala Val His Ala Lys Ser Ile Gly Asp Ile Asp Pro Gln
 210        215        220
Leu Asp Cys Phe Leu Ser Met Thr Val Ser Trp Tyr Gln Ser Leu Ile
 225        230        235        240
Lys Val Leu Leu Ser Arg Phe Pro Gln Ser Cys Arg His Phe Gln Ser
          245        250        255
Pro Asp Leu Gly Thr Gln Tyr Leu Val Val Leu Asn Gln Lys Phe Thr
 260        265        270
Asp Cys Phe Val Leu Val Phe Leu Asp Ser His Leu Gly Lys Thr Ser
 275        280        285
Leu Thr Val Val Phe Arg Glu Pro Phe Pro Val Gln Pro Gln Asp Ser
 290        295        300
Glu Ser Pro Pro Ala Gln Leu Val Ser Thr Tyr His His Leu Glu Ser
 305        310        315        320
Val Ile Asn Thr Ala Cys Phe Thr Leu Trp Thr Arg Leu Leu Xaa Gly
          325        330        335
Ser Gly Leu Asp His Xaa Met Ser Leu Phe Leu Glu Ser Trp Ala Tyr
 340        345        350
Gln Ile Ala Cys Gln Arg Gln Asp Xaa Pro Ala Leu Leu Gly Pro Arg
          355        360        365
Ala Ser Gln Thr Leu Ser Asp Thr Lys Gly Phe Val Thr Met Ser Xaa
 370        375        380
Gly Ser Ala Ala Pro Ala Trp Gln Gln Glu Pro Pro Ser Pro Asn Thr
 385        390        395        400
His Ser His Xaa Pro Ile Gln Asp Ser Arg Glu Ser Gly Gln Pro Arg
          405        410        415
Gly Pro Leu Gly Pro Phe Trp Gly Thr Pro Phe Gly Pro Pro Gly Arg
 420        425        430
Val Ser Gly Val His Thr Gly Trp Gln Thr Pro Pro Arg Ala Pro Leu
 435        440        445
Pro Glu Ser Cys Pro Leu Pro Leu Thr Thr Val Ser His Leu Cys Pro
 450        455        460
Leu Ser Leu Arg Val Phe Thr Ser His Leu Asp Ile Thr Ala Gly His
 465        470        475        480
Ser His Arg Asp Asp Thr Trp Val Pro Ile Pro Ala Leu Pro Leu Lys
          485        490        495
His Leu Arg Pro Pro Ser Ser Pro Phe Ala Leu Gly Pro Trp Val Ser
          500        505        510
His Pro Leu Met Arg Trp Val Gln Lys Leu Ser His Leu His Ser Asn
          515        520        525
Pro Gly Thr Gly Phe Ser Met Gly Gly Lys Gln Gln Arg Asn
 530          535        540        542

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<210> 1818
 <211> 155
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(152)
 <223> Xaa = any amino acid or nothing

<400> 1818
 Gln Thr Cys Arg Lys Asp Lys Arg Ala Ile Tyr Pro His Phe Gln Asn
 1 5 10 15
 Glu Xaa Met Asn Glu Ile Lys Ala Ile Xaa Ser Gly Thr Gly Gly Ile
 20 25 30
 Gln Cys Phe His Ser Gln Asn Asp Ser Ala Phe Phe Phe Phe Leu Phe
 35 40 45
 Leu Leu Glu Thr Glu Phe Cys Ser Ala Ala Thr Val Gln Trp His Asp
 50 55 60
 Phe Leu Ser Met Gln Pro Pro Pro Gly Phe Lys Gln Phe Thr Cys
 65 70 75 80
 Leu Ser Leu Leu Ser Ser Trp Asn Tyr Arg Arg Pro Pro Pro Phe Pro
 85 90 95
 Gly Asn Phe Xaa Phe Leu Val Lys Thr Gly Phe Pro His Val Gly Gln
 100 105 110
 Thr Gly Phe Glu Leu Leu Thr Ser Ser Asp Leu Ala Pro Leu Ala Ser
 115 120 125
 Gln Asn Gly Gly Ile Thr Gly Met Ser Pro Cys Ala Trp Pro Phe Phe
 130 135 140
 Phe Phe Phe Phe Phe Gly Leu Cys
 145 150 152

<210> 1819
 <211> 1482
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(1475)
 <223> Xaa = any amino acid or nothing

<400> 1819
 Met Ala Tyr Ser Trp Gln Thr Asp Pro Asn Pro Asn Glu Ser His Glu
 1 5 10 15
 Lys Gln Tyr Glu His Gln Glu Phe Leu Phe Val Asn Gln Pro His Ser
 20 25 30
 Ser Ser Gln Val Ser Leu Gly Phe Asp Gln Ile Val Asp Glu Ile Ser
 35 40 45
 Gly Lys Ile Pro His Tyr Glu Ser Glu Ile Asp Glu Asn Thr Phe Phe
 50 55 60
 Val Pro Thr Ala Pro Lys Trp Asp Ser Thr Gly His Ser Leu Asn Glu
 65 70 75 80
 Ala His Gln Ile Ser Leu Asn Glu Phe Thr Ser Lys Ser Arg Glu Leu
 85 90 95
 Ser Trp His Gln Val Ser Lys Ala Pro Ala Ile Gly Phe Ser Pro Ser
 100 105 110
 Val Leu Pro Lys Pro Gln Asn Thr Asn Lys Glu Cys Ser Trp Gly Ser
 115 120 125
 Pro Ile Gly Lys His His Gly Ala Asp Asp Ser Arg Phe Ser Ile Leu
 130 135 140

Ala Pro Ser Phe Thr Ser Leu Asp Lys Ile Asn Leu Glu Lys Glu Leu
 145 150 155 160
 Glu Asn Glu Asn His Asn Tyr His Ile Gly Phe Glu Ser Ser Ile Pro
 165 170 175
 Pro Thr Asn Ser Ser Phe Ser Ser Asp Phe Met Pro Lys Glu Glu Asn
 180 185 190
 Lys Arg Ser Gly His Val Asn Ile Val Glu Pro Ser Leu Met Leu Leu
 195 200 205
 Lys Gly Ser Leu Gln Pro Gly Met Trp Glu Ser Thr Trp Gln Lys Asn
 210 215 220
 Ile Glu Ser Ile Gly Cys Ser Ile Gln Leu Val Glu Val Pro Gln Ser
 225 230 235 240
 Ser Asn Thr Ser Leu Ala Ser Phe Cys Asn Lys Val Lys Lys Ile Arg
 245 250 255
 Glu Arg Tyr His Ala Ala Asp Val Asn Phe Asn Ser Gly Lys Ile Trp
 260 265 270
 Ser Thr Thr Thr Ala Phe Pro Tyr Gln Leu Phe Ser Lys Thr Lys Phe
 275 280 285
 Asn Ile His Ile Phe Ile Asp Asn Ser Thr Gln Pro Leu His Phe Met
 290 295 300
 Pro Cys Ala Asn Tyr Leu Val Lys Asp Leu Ile Ala Glu Ile Leu His
 305 310 315 320
 Phe Cys Thr Asn Asp Gln Leu Leu Pro Lys Asp His Ile Leu Ser Val
 325 330 335
 Trp Gly Ser Glu Glu Phe Leu Gln Asn Asp His Cys Leu Gly Ser His
 340 345 350
 Lys Met Phe Gln Lys Asp Lys Ser Val Ile Gln Leu His Leu Gln Lys
 355 360 365
 Ser Arg Glu Ala Pro Gly Lys Leu Ser Arg Lys His Glu Glu Asp His
 370 375 380
 Ser Gln Phe Tyr Leu Asn Gln Leu Leu Glu Phe Met His Ile Trp Lys
 385 390 395 400
 Val Ser Arg Gln Cys Leu Leu Thr Leu Ile Arg Lys Tyr Asp Phe His
 405 410 415
 Leu Lys Tyr Leu Leu Lys Thr Gln Glu Asn Val Tyr Asn Ile Ile Glu
 420 425 430
 Glu Val Lys Lys Ile Cys Ser Val Leu Gly Cys Val Glu Thr Lys Gln
 435 440 445
 Ile Thr Asp Ala Val Asn Glu Leu Ser Leu Ile Leu Gln Arg Lys Gly
 450 455 460
 Glu Asn Phe Tyr Gln Ser Ser Glu Thr Ser Ala Lys Gly Leu Ile Glu
 465 470 475 480
 Lys Val Thr Thr Glu Leu Ser Thr Ser Ile Tyr Gln Leu Ile Asn Val
 485 490 495
 Tyr Cys Asn Ser Phe Tyr Ala Asp Phe Gln Pro Val Asn Val Pro Arg
 500 505 510
 Cys Thr Ser Tyr Leu Asn Pro Gly Leu Pro Ser His Leu Ser Phe Thr
 515 520 525
 Val Tyr Ala Ala His Asn Ile Pro Glu Thr Trp Val His Arg Ile Asn
 530 535 540
 Phe Pro Leu Glu Ile Lys Ser Leu Pro Arg Glu Ser Met Leu Thr Val
 545 550 555 560
 Lys Leu Phe Gly Ile Ala Cys Ala Thr Asn Asn Ala Asn Leu Leu Ala
 565 570 575
 Trp Thr Cys Leu Pro Leu Phe Pro Lys Glu Lys Ser Ile Leu Gly Ser
 580 585 590
 Met Leu Phe Ser Met Thr Leu Gln Ser Glu Pro Pro Val Glu Met Ile
 595 600 605
 Thr Pro Gly Val Trp Asp Val Ser Gln Pro Ser Pro Val Thr Leu Gln
 610 615 620
 Ile Asp Phe Pro Ala Thr Gly Trp Glu Tyr Met Lys Pro Asp Ser Glu
 625 630 635 640
 Glu Asn Arg Ser Asn Leu Glu Glu Pro Leu Lys Glu Cys Ile Lys His
 645 650 655

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Ile Ala Arg Leu Ser Gln Lys Gln Thr Pro Leu Leu Leu Ser Glu Glu
      660      665      670
Lys Lys Arg Tyr Leu Trp Phe Tyr Arg Phe Tyr Cys Asn Asn Glu Asn
      675      680      685
Cys Ser Leu Pro Leu Val Leu Gly Ser Ala Pro Gly Trp Asp Glu Arg
      690      695      700
Thr Val Ser Glu Met His Thr Ile Leu Arg Arg Trp Thr Phe Ser Gln
      705      710      715      720
Pro Leu Glu Ala Leu Gly Leu Leu Thr Ser Ser Phe Pro Asp Gln Glu
      725      730      735
Ile Arg Lys Val Ala Val Gln Gln Leu Asp Asn Leu Leu Asn Asp Glu.
      740      745      750
Leu Leu Glu Tyr Leu Pro Gln Leu Val Gln Ala Val Lys Phe Glu Trp
      755      760      765
Asn Leu Glu Ser Pro Leu Val Gln Leu Leu Leu His Arg Ser Leu Gln
      770      775      780
Ser Ile Gln Val Ala His Arg Leu Tyr Trp Leu Leu Lys Asn Ala Glu
      785      790      795      800
Asn Glu Ala Tyr Phe Lys Ser Trp Tyr Gln Lys Leu Leu Ala Ala Leu
      805      810      815
Gln Phe Cys Ala Gly Lys Ala Leu Asn Asp Glu Phe Ser Lys Glu Gln
      820      825      830
Lys Leu Ile Lys Ile Leu Gly Asp Ile Gly Glu Arg Val Lys Ser Ala
      835      840      845
Ser Asp His Gln Arg Gln Glu Val Leu Lys Lys Glu Ile Gly Arg Leu
      850      855      860
Glu Glu Phe Phe Gln Asp Val Asn Thr Cys His Leu Pro Leu Asn Pro
      865      870      875      880
Ala Leu Cys Ile Lys Gly Ile Asp His Asp Ala Cys Ser Tyr Phe Thr
      885      890      895
Ser Asn Ala Leu Pro Leu Lys Ile Thr Phe Ile Asn Ala Asn Leu Met
      900      905      910
Gly Lys Asn Ile Ser Ile Ile Phe Lys Ala Gly Asp Asp Leu Arg Gln
      915      920      925
Asp Met Leu Val Leu Gln Leu Ile Gln Val Met Asp Asn Ile Trp Leu
      930      935      940
Gln Glu Gly Leu Asp Met Gln Met Ile Ile Tyr Arg Cys Leu Ser Thr
      945      950      955      960
Gly Lys Asp Gln Arg Leu Val Gln Met Val Pro Asp Ala Val Thr Leu
      965      970      975
Ala Lys Ile His Arg His Ser Gly Leu Ile Gly Pro Leu Lys Glu Asn
      980      985      990
Thr Ile Lys Lys Trp Phe Ser Gln His Asn His Leu Lys Ala Asp Tyr
      995      1000      1005
Glu Lys Ala Leu Arg Asn Phe Phe Tyr Ser Cys Ala Gly Trp Cys Val
      1010      1015      1020
Val Thr Phe Ile Leu Gly Val Cys Asp Arg His Asn Asp Asn Ile Met
      1025      1030      1035      1040
Leu Thr Lys Ser Gly His Met Phe His Ile Asp Phe Gly Lys Phe Leu
      1045      1050      1055
Gly His Ala Gln Thr Phe Gly Gly Ile Lys Arg Asp Arg Ala Pro Phe
      1060      1065      1070
Ile Phe Thr Ser Glu Met Glu Tyr Phe Ile Thr Glu Gly Gly Lys Asn
      1075      1080      1085
Pro Gln His Phe Gln Asp Phe Val Glu Leu Cys Cys Arg Ala Tyr Asn
      1090      1095      1100
Ile Ile Arg Lys His Ser Gln Leu Leu Leu Asn Leu Leu Glu Met Met
      1105      1110      1115      1120
Leu Tyr Ala Gly Leu Pro Glu Leu Ser Gly Ile Gln Asp Leu Lys Tyr
      1125      1130      1135
Val Tyr Asn Asn Leu Arg Pro Gln Asp Thr Asp Leu Glu Ala Thr Ser
      1140      1145      1150
His Phe Thr Lys Lys Ile Lys Glu Ser Leu Glu Cys Phe Pro Val Lys
      1155      1160      1165

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Leu Asn Asn Leu Ile His Thr Leu Ala Gln Met Ser Ala Ile Ser Pro
 1170 1175 1180
 Ala Lys Ser Thr Ser Gln Thr Phe Pro Gln Glu Ser Cys Leu Leu Ser
 1185 1190 1195 1200
 Thr Thr Arg Ser Ile Glu Arg Ala Thr Ile Leu Gly Phe Ser Lys Lys
 1205 1210 1215
 Ser Ser Asn Leu Tyr Leu Ile Gln Val Thr His Ser Asn Asn Glu Thr
 1220 1225 1230
 Ser Leu Thr Glu Lys Ser Phe Glu Gln Phe Ser Lys Leu His Ser Gln
 1235 1240 1245
 Leu Gln Lys Gln Phe Ala Ser Leu Thr Leu Pro Glu Phe Pro His Trp
 1250 1255 1260
 Trp His Leu Pro Phe Thr Asn Ser Asp His Arg Arg Phe Arg Asp Leu
 1265 1270 1275 1280
 Asn His Tyr Met Glu Gln Ile Leu Asn Val Ser His Glu Val Thr Asn
 1285 1290 1295
 Ser Asp Cys Val Leu Ser Phe Phe Leu Ser Glu Ala Gly Gln Gln Thr
 1300 1305 1310
 Val Glu Glu Ser Ser Pro Val Tyr Leu Gly Glu Lys Phe Pro Asp Lys
 1315 1320 1325
 Lys Pro Lys Val Gln Leu Val Ile Ser Tyr Glu Asp Val Lys Leu Thr
 1330 1335 1340
 Ile Leu Val Lys His Met Lys Asn Ile His Leu Pro Asp Gly Ser Ala
 1345 1350 1355 1360
 Pro Ser Ala His Val Glu Phe Tyr Leu Leu Pro Tyr Pro Ser Glu Val
 1365 1370 1375
 Arg Arg Arg Lys Thr Lys Ser Val Pro Lys Cys Thr Asp Pro Thr Tyr
 1380 1385 1390
 Asn Glu Ile Val Val Tyr Asp Glu Val Thr Glu Leu Gln Gly His Val
 1395 1400 1405
 Leu Met Leu Ile Val Lys Ser Lys Thr Val Phe Val Gly Ala Ile Asn
 1410 1415 1420
 Ile Arg Leu Cys Ser Val Pro Leu Asp Lys Glu Lys Trp Tyr Pro Leu
 1425 1430 1435 1440
 Gly Asn Ser Ile Ile Xaa Pro Leu Leu Leu Phe Ser Ser Phe Gly Met
 1445 1450 1455
 Lys Ser Leu Glu Lys Asp Glu Phe Val Gly Gly Met Leu Leu Ser Asn
 1460 1465 1470
 Pro Ile Trp
 1475

<210> 1820
 <211> 121
 <212> PRT
 <213> Homo sapiens

<221> misc_feature
 <222> (1)...(119)
 <223> Xaa = any amino acid or nothing

<400> 1820
 Ser His Gly Ser Ile Ser Ile Leu Asn Leu His Gln Gly Cys Val Phe
 1 5 10 15
 Leu Pro Ser Leu Pro Ala Gln Gly Leu Arg Cys Tyr Arg Cys Leu Ala
 20 25 30
 Val Leu Glu Gly Ala Ser Cys Ser Val Val Ser Cys Pro Phe Leu Asp
 35 40 45
 Gly Val Cys Val Ser Gln Lys Val Ser Val Cys Trp Gln Xaa Cys Pro
 50 55 60
 Trp Gly Ala Arg Ala Glu Gly Arg Leu Ser Ala Val Val Asp Ser Gln
 65 70 75 80

```

Ile Ser Cys Cys Lys Gly Asp Leu Cys Asn Ala Val Val Leu Ala Ala
      85          90          95
Gly Ser Pro Trp Ala Leu Cys Val Gln Leu Leu Leu Ser Leu Gly Ser
      100        105        110
Val Phe Leu Trp Ala Leu Leu
      115          119

```

```

<210> 1821
<211> 134
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(132)
<223> Xaa = any amino acid or nothing

```

```

<400> 1821
Leu Arg Gln Ser Leu Asn Ser Val Pro Gln Ala Gly Val Gln Trp Arg
 1      5          10          15
Asp Ser Ser Leu Gln Ala Pro Pro Pro Arg Phe Thr Pro Leu Ser Cys
      20          25          30
Leu Ser Leu Pro Ser Ser Trp Asp Tyr Arg Arg Leu Pro Pro Cys Leu
      35          40          45
Ala Asn Phe Leu Tyr Phe Xaa Xaa Arg Arg Gly Phe Thr Met Leu Ala
      50          55          60
Arg Met Val Leu Ile Ser Xaa Pro Arg Asp Pro Pro Ala Ser Ala Ser
      65          70          75          80
Gln Ser Thr Glu Ile Thr Gly Gly Ser His Arg Ala Gln His Pro Thr
      85          90          95
Asp Ser Arg Asp His Ser Glu Arg Ser Val Lys Lys Ser His Glu Val
      100        105        110
Ile Ser Glu Leu Arg Met Lys Val Ile Lys Cys Lys Val Ala Phe Ser
      115        120        125
Lys Asn Pro Ile
      130        132

```

```

<210> 1822
<211> 64
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(63)
<223> Xaa = any amino acid or nothing

```

```

<400> 1822
Gly Phe Ile Glu Thr Xaa Asn Phe Cys Val Ser Lys Asp Thr Ser Lys
 1      5          10          15
Lys Leu Ser Arg Leu Pro Thr Lys Trp Lys Asn Val Phe Ala Asn Xaa
      20          25          30
Ile Ser Asp Lys Gly Leu Val Ser Arg Ile Cys Gln Glu Leu Leu Arg
      35          40          45
His Leu Asp Ala Glu Gln Val Ser Ser Thr Ala Gly Leu Ser Leu
      50          55          60          63

```

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<210> 1823

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<211> 166
 <212> PRT
 <213> Homo sapiens

<400> 1823
 Thr His Ala Ser Gly Gly Ala Arg Ser Gly Ala Gly Trp Ala Gly Arg
 1 5 10 15
 Gly Val Arg Ala Gly Thr Glu Ala Gly Arg Gly Gly Ile Phe Leu Thr
 20 25 30
 Leu Ser Ile Leu Arg Thr Arg Asp Leu Pro Ser Gly Ala Met Ser Glu
 35 40 45
 Gly Val Asp Leu Ile Asp Ile Tyr Ala Asp Glu Glu Phe Asn Gln Asp
 50 55 60
 Pro Glu Phe Asn Asn Thr Asp Gln Ile Asp Leu Tyr Asp Asp Val Leu
 65 70 75 80
 Thr Ala Thr Ser Gln Pro Ser Asp Asp Arg Ser Ser Ser Thr Glu Pro
 85 90 95
 Pro Pro Pro Val Arg Gln Glu Pro Ser Pro Lys Pro Asn Asn Lys Thr
 100 105 110
 Pro Ala Ile Leu Tyr Thr Tyr Ser Gly Leu Arg Asn Arg Arg Ala Ala
 115 120 125
 Val Tyr Val Gly Ser Phe Ser Trp Trp Thr Thr Asp Gln Gln Leu Ile
 130 135 140
 Gln Val Ile Arg Ser Ile Gly Val Tyr Asp Val Gly Glu Val Lys Phe
 145 150 155 160
 Ala Glu Asn Arg Ala Lys
 165 166

<210> 1824
 <211> 1755
 <212> PRT
 <213> Homo sapiens
 <221> misc_feature
 <222> (1)...(1753)
 <223> Xaa = any amino acid or nothing

<400> 1824
 Arg Pro Leu Phe Ala Arg Glu Gly Gly Ile Tyr Ala Val Leu Val Cys
 1 5 10 15
 Met Gln Glu Tyr Lys Thr Ser Val Leu Val Gln Gln Ala Gly Leu Ala
 20 25 30
 Ala Leu Lys Met Leu Ala Val Ala Ser Ser Ser Glu Ile Pro Thr Phe
 35 40 45
 Val Thr Gly Arg Asp Ser Ile His Ser Leu Phe Asp Ala Gln Met Thr
 50 55 60
 Arg Glu Ile Phe Ala Ser Ile Asp Ser Ala Thr Arg Pro Gly Ser Glu
 65 70 75 80
 Ser Leu Leu Leu Thr Val Pro Ala Ala Val Ile Leu Met Leu Asn Thr
 85 90 95
 Glu Gly Cys Ser Ser Ala Ala Arg Asn Gly Leu Leu Leu Leu Asn Leu
 100 105 110
 Leu Leu Cys Asn His His Thr Leu Gly Asp Gln Ile Ile Thr Gln Glu
 115 120 125
 Leu Arg Asp Thr Leu Phe Arg His Ser Gly Ile Ala Pro Arg Thr Glu
 130 135 140
 Pro Met Pro Thr Thr Arg Thr Ile Leu Met Met Leu Leu Asn Arg Tyr
 145 150 155 160
 Ser Glu Pro Pro Gly Ser Pro Glu Arg Ala Ala Leu Glu Thr Pro Ile
 165 170 175

```

Ile Gln Gly Gln Asp Gly Ser Pro Glu Leu Leu Ile Arg Ser Leu Val
      180      185      190
Gly Gly Pro Ser Ala Glu Leu Leu Asp Leu Glu Arg Val Leu Cys
      195      200      205
Arg Glu Gly Ser Pro Gly Gly Ala Val Arg Pro Leu Leu Lys Arg Leu
      210      215      220
Gln Gln Glu Thr Gln Pro Phe Leu Leu Leu Arg Thr Leu Asp Ala
      225      230      235      240
Pro Gly Pro Asn Lys Thr Leu Leu Leu Ser Val Leu Arg Val Ile Thr
      245      250      255
Arg Leu Leu Asp Phe Pro Glu Ala Met Val Leu Pro Trp His Glu Val
      260      265      270
Leu Glu Pro Cys Leu Asn Cys Leu Ser Gly Pro Ser Ser Asp Ser Glu
      275      280      285
Ile Val Gln Glu Leu Thr Cys Phe Leu His Arg Leu Ala Ser Met His
      290      295      300
Lys Asp Tyr Ala Val Val Leu Cys Cys Leu Gly Ala Lys Glu Ile Leu
      305      310      315      320
Ser Lys Val Leu Asp Lys His Ser Ala Gln Leu Leu Leu Gly Cys Glu
      325      330      335
Leu Arg Asp Leu Val Thr Glu Cys Glu Lys Tyr Ala Gln Leu Tyr Ser
      340      345      350
Asn Leu Thr Ser Ser Ile Leu Ala Gly Cys Ile Gln Met Val Leu Gly
      355      360      365
Gln Ile Glu Asp His Arg Arg Thr His Gln Pro Ile Asn Ile Pro Phe
      370      375      380
Phe Asp Val Phe Leu Arg His Leu Cys Gln Gly Ser Ser Val Glu Val
      385      390      395      400
Lys Glu Asp Lys Cys Trp Glu Lys Val Glu Val Ser Ser Asn Pro His
      405      410      415
Arg Ala Ser Lys Leu Thr Asp His Asn Pro Lys Thr Tyr Trp Glu Ser
      420      425      430
Asn Gly Ser Thr Gly Ser His Tyr Ile Thr Leu His Met His Arg Gly
      435      440      445
Val Leu Val Arg Gln Leu Thr Leu Leu Val Ala Ser Glu Asp Ser Ser
      450      455      460
Tyr Met Pro Ala Arg Val Val Val Phe Gly Gly Asp Ser Thr Ser Cys
      465      470      475      480
Ile Gly Thr Glu Leu Asn Thr Val Asn Val Met Pro Ser Ala Ser Arg
      485      490      495
Val Ile Leu Leu Glu Asn Leu Asn Arg Phe Trp Pro Ile Ile Gln Ile
      500      505      510
Arg Ile Lys Arg Cys Gln Gln Gly Gly Ile Asp Thr Arg Val Arg Gly
      515      520      525
Val Glu Val Leu Gly Pro Lys Pro Thr Phe Trp Pro Leu Phe Arg Glu
      530      535      540
Gln Leu Cys Arg Arg Thr Cys Leu Phe Tyr Thr Ile Arg Ala Gln Ala
      545      550      555      560
Trp Ser Arg Asp Ile Ala Glu Asp His Arg Arg Leu Leu Gln Leu Cys
      565      570      575
Pro Arg Leu Asn Arg Val Leu Arg His Glu Gln Asn Phe Ala Asp Arg
      580      585      590
Phe Leu Pro Asp Asp Glu Ala Ala Gln Ala Leu Gly Lys Thr Cys Trp
      595      600      605
Glu Ala Leu Val Ser Pro Leu Val Gln Asn Ile Thr Ser Pro Asp Ala
      610      615      620
Glu Gly Val Ser Ala Leu Gly Trp Leu Leu Asp Gln Tyr Leu Glu Gln
      625      630      635      640
Arg Glu Thr Ser Arg Asn Pro Leu Ser Arg Ala Ala Ser Phe Ala Ser
      645      650      655
Arg Val Arg Arg Leu Cys His Leu Leu Val His Val Glu Pro Pro Pro
      660      665      670
Gly Pro Ser Pro Glu Pro Ser Thr Arg Pro Phe Ser Lys Asn Ser Lys
      675      680      685

```

Gly Arg Asp Arg Ser Pro Ala Pro Ser Pro Val Leu Pro Ser Ser Ser
 690 695 700
 Leu Arg Asn Ile Thr Gln Cys Trp Leu Ser Val Val Gln Glu Gln Val
 705 710 715 720
 Ser Arg Phe Leu Ala Ala Ala Trp Arg Ala Pro Asp Phe Val Pro Arg
 725 730 735
 Tyr Cys Lys Leu Tyr Glu His Leu Gln Arg Ala Gly Ser Glu Leu Phe
 740 745 750
 Gly Pro Arg Ala Ala Phe Met Leu Ala Leu Arg Ser Gly Phe Ser Gly
 755 760 765
 Ala Leu Leu Gln Gln Ser Phe Leu Thr Ala Ala His Met Ser Glu Gln
 770 775 780
 Phe Ala Arg Tyr Ile Asp Gln Gln Ile Gln Gly Gly Leu Ile Gly Gly
 785 790 795 800
 Ala Pro Gly Val Glu Met Leu Gly Gln Leu Gln Arg His Leu Glu Pro
 805 810 815
 Ile Met Val Leu Ser Gly Leu Glu Leu Ala Thr Thr Phe Glu His Phe
 820 825 830
 Tyr Gln His Tyr Met Ala Asp Arg Leu Leu Ser Phe Gly Ser Ser Trp
 835 840 845
 Leu Glu Gly Ala Val Leu Glu Gln Ile Gly Leu Cys Phe Pro Asn Arg
 850 855 860
 Leu Pro Gln Leu Met Leu Gln Ser Leu Ser Thr Ser Glu Glu Leu Gln
 865 870 875 880
 Arg Gln Phe His Leu Phe Gln Leu Gln Arg Leu Asp Lys Leu Phe Leu
 885 890 895
 Glu Gln Glu Asp Glu Glu Glu Lys Arg Leu Xaa Glu Glu Glu Glu Glu
 900 905 910
 Glu Glu Glu Glu Glu Ala Glu Lys Glu Leu Phe Ile Glu Asp Pro Ser
 915 920 925
 Pro Ala Ile Ser Ile Leu Val Leu Ser Pro Arg Cys Trp Pro Val Ser
 930 935 940
 Pro Leu Cys Tyr Leu Tyr His Pro Arg Lys Cys Leu Pro Thr Glu Phe
 945 950 955 960
 Cys Asp Ala Leu Asp Arg Phe Ser Ser Phe Tyr Ser Gln Ser Gln Asn
 965 970 975
 His Pro Val Leu Asp Met Gly Pro His Arg Arg Leu Gln Trp Thr Trp
 980 985 990
 Leu Gly Arg Ala Glu Leu Gln Phe Gly Lys Gln Ile Leu His Val Ser
 995 1000 1005
 Thr Val Gln Met Trp Leu Leu Leu Lys Phe Asn Gln Thr Glu Glu Val
 1010 1015 1020
 Ser Val Glu Thr Leu Leu Lys Asp Ser Asp Leu Ser Pro Glu Leu Leu
 1025 1030 1035 1040
 Leu Gln Ala Leu Val Pro Leu Thr Ser Gly Asn Gly Pro Leu Thr Leu
 1045 1050 1055
 His Glu Gly Gln Asp Phe Pro His Gly Gly Val Leu Arg Leu His Glu
 1060 1065 1070
 Pro Gly Pro Gln Arg Ser Gly Glu Ala Leu Trp Leu Ile Pro Pro Gln
 1075 1080 1085
 Ala Tyr Leu Asn Val Glu Lys Asp Glu Gly Arg Thr Leu Glu Gln Lys
 1090 1095 1100
 Arg Asn Leu Leu Ser Cys Leu Leu Val Arg Ile Leu Lys Ala His Gly
 1105 1110 1115 1120
 Glu Lys Gly Leu His Ile Asp Gln Leu Val Cys Leu Val Leu Glu Ala
 1125 1130 1135
 Trp Gln Lys Gly Pro Asn Pro Pro Gly Thr Leu Gly His Thr Val Ala
 1140 1145 1150
 Gly Gly Val Ala Cys Thr Ser Thr Asp Val Leu Ser Cys Ile Leu His
 1155 1160 1165
 Leu Leu Gly Gln Gly Tyr Val Lys Arg Arg Asp Asp Arg Pro Gln Ile
 1170 1175 1180
 Leu Met Tyr Ala Ala Pro Glu Pro Met Gly Pro Cys Arg Gly Gln Ala
 1185 1190 1195 1200

Asp Val Pro Phe Cys Gly Ser Gln Ser Glu Thr Ser Lys Pro Ser Pro
 1205 1210 1215
 Glu Ala Val Ala Thr Leu Ala Ser Leu Gln Leu Pro Ala Gly Arg Thr
 1220 1225 1230
 Met Ser Pro Gln Glu Val Glu Gly Leu Met Lys Gln Thr Val Arg Gln
 1235 1240 1245
 Val Gln Glu Thr Leu Asn Leu Glu Pro Asp Val Ala Gln His Leu Leu
 1250 1255 1260
 Ala His Ser His Trp Gly Ala Glu Gln Leu Leu Gln Ser Tyr Ser Glu
 1265 1270 1275 1280
 Asp Pro Glu Pro Leu Leu Leu Ala Ala Gly Leu Cys Val His Gln Ala
 1285 1290 1295
 Gln Ala Val Pro Val Arg Pro Asp His Cys Pro Val Cys Val Ser Pro
 1300 1305 1310
 Leu Gly Cys Asp Asp Asp Leu Pro Ser Leu Cys Cys Met His Tyr Cys
 1315 1320 1325
 Cys Lys Ser Cys Trp Asn Glu Tyr Leu Thr Thr Arg Ile Glu Gln Asn
 1330 1335 1340
 Leu Val Leu Asn Cys Thr Cys Pro Ile Ala Asp Cys Pro Ala Gln Pro
 1345 1350 1355 1360
 Thr Gly Ala Phe Ile Arg Ala Ile Val Ser Ser Pro Glu Val Ile Ser
 1365 1370 1375
 Lys Tyr Glu Lys Ala Leu Leu Arg Gly Tyr Val Glu Ser Cys Ser Asn
 1380 1385 1390
 Leu Thr Trp Cys Thr Asn Pro Gln Gly Cys Asp Arg Ile Leu Cys Arg
 1395 1400 1405
 Gln Gly Leu Gly Cys Gly Thr Cys Ser Lys Cys Gly Trp Ala Ser
 1410 1415 1420
 Cys Phe Asn Cys Ser Phe Pro Glu Ala His Tyr Pro Ala Ser Cys Gly
 1425 1430 1435 1440
 His Met Ser Gln Trp Val Asp Asp Gly Gly Tyr Tyr Asp Gly Met Ser
 1445 1450 1455
 Val Glu Ala Gln Ser Lys His Leu Ala Lys Leu Ile Ser Lys Arg Cys
 1460 1465 1470
 Pro Ser Cys Gln Ala Pro Ile Glu Lys Asn Glu Gly Cys Leu His Met
 1475 1480 1485
 Thr Cys Ala Lys Cys Asn His Gly Phe Cys Trp Arg Cys Leu Lys Ser
 1490 1495 1500
 Trp Lys Pro Asn His Lys Asp Tyr Tyr Asn Cys Ser Ala Met Val Ser
 1505 1510 1515 1520
 Lys Ala Ala Arg Gln Glu Lys Arg Phe Gln Asp Tyr Asn Glu Arg Cys
 1525 1530 1535
 Thr Phe His His Gln Ala Arg Glu Phe Ala Val Asn Leu Arg Asn Arg
 1540 1545 1550
 Val Ser Ala Ile His Glu Val Pro Pro Pro Arg Ser Phe Thr Phe Leu
 1555 1560 1565
 Asn Asp Ala Cys Gln Gly Leu Glu Gln Ala Arg Lys Val Leu Ala Tyr
 1570 1575 1580
 Ala Cys Val Tyr Ser Phe Tyr Ser Gln Asp Ala Glu Tyr Met Asp Val
 1585 1590 1595 1600
 Val Glu Gln Gln Thr Glu Asn Leu Glu Leu His Thr Asn Ala Leu Gln
 1605 1610 1615
 Ile Leu Leu Glu Glu Thr Leu Leu Arg Cys Arg Asp Leu Ala Ser Ser
 1620 1625 1630
 Leu Arg Leu Leu Arg Ala Asp Cys Leu Ser Thr Gly Met Glu Leu Leu
 1635 1640 1645
 Arg Arg Ile Gln Glu Arg Leu Leu Ala Ile Leu Gln His Ser Ala Gln
 1650 1655 1660
 Asp Phe Arg Val Gly Leu Gln Ser Pro Ser Val Glu Ala Trp Glu Ala
 1665 1670 1675 1680
 Lys Gly Pro Asn Met Pro Gly Ser Gln Pro Gln Ala Ser Ser Gly Pro
 1685 1690 1695
 Glu Ala Glu Glu Glu Glu Glu Asp Asp Glu Asp Asp Val Pro Glu Trp
 1700 1705 1710

Gln Gln Asp Glu Phe Asp Glu Glu Leu Asp Asn Asp Ser Phe Ser Tyr
 1715 1720 1725
 Asp Glu Ser Glu Asn Leu Asp Gln Glu Thr Phe Phe Phe Gly Asp Glu
 1730 1735 1740
 Glu Glu Asp Glu Asp Glu Ala Tyr Asp
 1745 1750 1753

<210> 1825
 <211> 336
 <212> PRT
 <213> Homo sapiens

<221> misc_feature
 <222> (1)...(333)
 <223> Xaa = any amino acid or nothing

<400> 1825
 Gly Thr Ser Arg Asn Gln His Ser Pro Lys Thr His Ala Xaa Arg Ser
 1 5 10 15
 Ser Trp Pro Gln Pro Pro Pro Leu Phe Leu Pro Pro Leu Gln Pro Gln
 20 25 30
 Ala Thr Gly Arg Arg Arg Arg Thr Arg Thr Gln Gln Arg Thr Ala
 35 40 45
 Ala Leu Leu Thr Asp Gly Thr Thr Lys Thr Gly Ala Ala Trp Ser Arg
 50 55 60
 Arg Pro Ser Leu Cys Trp Pro Ser Arg Thr Thr Gly Ala Pro Gly Ala
 65 70 75 80
 Lys Xaa Ala Val Leu Val Arg Ser Ala Thr Pro Thr Thr Asn Pro Pro
 85 90 95
 Asn Pro Gln Ser Pro Thr Gly Ala Ala Gly Lys Leu Arg Ala Pro Gly
 100 105 110
 Asn Arg Ala Gly Ser Glu Pro Ser Ser Gln Glu Pro Pro Pro Asp Gly
 115 120 125
 Thr Arg Arg Pro Ala Ser Ile Thr Gly Val Ala Gln Ser Pro Ala Thr
 130 135 140
 Arg Ala Thr Pro Ser Leu Pro Cys Leu His Val Pro Ala Pro Ser Arg
 145 150 155 160
 Gly Gln Thr Leu Gly Val Arg Thr Thr Gly Arg Ala Ser Arg Leu Thr
 165 170 175
 Val Asp Arg Ser Arg Leu Ser Trp Pro Gly Arg Ser Ala Arg Ser Gly
 180 185 190
 Gly Gly Arg Trp Arg Pro Asn Ala Pro Arg Gly Arg Trp Pro Arg Ala
 195 200 205
 Pro Xaa Ser Trp Glu Pro Gly Ser Trp Thr Glu Pro Trp Arg Trp Pro
 210 215 220
 Phe Pro Ala Ala Glu Ser Pro Pro His Arg Cys Ile Tyr Cys Thr Asn
 225 230 235 240
 His Val Ser Pro Ala Gly Pro Ala Arg Pro Ser His Val Tyr Ile Ile
 245 250 255
 Arg Ala Thr Ile Asn Ser Ile Ser His Pro Leu Cys Arg Ala Gln Ser
 260 265 270
 Ser Pro Trp Glu Ala Ala Gly Val Trp Arg Arg Pro Ala Gln Pro Ala
 275 280 285
 Pro Thr Ser Asp Val Asn Ile Asn Leu Leu Arg Lys Pro Arg Val Lys
 290 295 300
 Arg His Asp Leu Ile Tyr Gln Phe Leu Gly Asn Thr Leu Trp Glu Glu
 305 310 315 320
 Gly Arg Gln Arg Pro Glu Thr Leu Gln Pro Ala Arg
 325 330 333

<210> 1826
 <211> 128
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(126)
 <223> Xaa = any amino acid or nothing

<400> 1826
 Phe Phe Phe Gly Asn Gly Val Ser Pro Cys Pro Gln Ala Gly Val Xaa
 1 5 10 15
 Trp His Asp Leu Asp Ser Leu Gln Asn Leu Pro Pro Gly Phe Lys Arg
 20 25 30
 Phe Ser Tyr Leu Ser Leu Pro Ser Ser Trp Asp Tyr Arg His Val Pro
 35 40 45
 Pro Arg Gln Ala Asn Phe Cys Ile Phe Met Xaa Arg Arg Gly Phe Thr
 50 55 60
 Met Leu Ala Arg Met Val Ser Ile Ser Xaa Pro Arg Asp Leu Pro Ala
 65 70 75 80
 Leu Ala Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His His Ala Pro
 85 90 95
 Pro Gln Met Asp Phe Thr Phe Ala Leu Leu Cys Phe Ala Pro Lys Gly
 100 105 110
 Cys Leu Pro Arg Gln Lys Glu Gly Gly Thr Leu Asn Leu Ile
 115 120 125 126

<210> 1827
 <211> 92
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(90)
 <223> Xaa = any amino acid or nothing

<400> 1827
 Gly Val Ile Ser Ala His Cys Asn Leu Arg Leu Cys His Leu Pro Gly
 1 5 10 15
 Ser Ser Asn Ser Pro Ala Ser Ala Ser Gln Val Ala Gly Thr Ile Gly
 20 25 30
 Ala Arg Thr Thr Pro Ser Xaa Ile Phe Val Phe Leu Val Glu Thr Gly
 35 40 45
 Phe His His Val Ser Gln Asp Gly Leu Asp Leu Leu Asn Phe Val Ile
 50 55 60
 Arg Pro Arg Arg Pro Leu Lys Val Leu Gly Leu Gln Ala Cys Thr Arg
 65 70 75 80
 Ala Arg Leu Pro Ser Pro Leu Lys Glu Leu
 85 90

<210> 1828
 <211> 328
 <212> PRT
 <213> Homo sapiens

<221> misc_feature
 <222> (1)...(324)

<223> Xaa = any amino acid or nothing

<400> 1828

```

His Leu Leu Ser Phe His Leu Trp Ser Ala Ser Leu Asp Cys Leu Glu
 1           5           10           15
Gln Leu Ser Gln Glu Arg His Val Lys Gly Met Leu Leu Gly Pro Pro
      20           25           30
Pro Val Asn Glu Ser Thr Lys Pro Ser Pro Ser Pro Trp Lys Leu Thr
      35           40           45
Pro Pro Met Cys Ser Ile Pro Pro Val Phe Pro Pro Lys Ser Gly Ser
      50           55           60
Pro Thr Thr Ser Trp Ser Pro Ser Gly His Ser Lys Leu Glu Val Glu
      65           70           75           80
Arg Ala Gln Thr Gly Pro Phe Cys Leu His Ile Tyr Cys Pro Xaa Pro
      85           90           95
Gly Val Thr Asp Asn Thr Thr Ser Leu Leu His Tyr Ile Pro Phe Pro
      100          105          110
Arg Leu Ser Gly Leu Val Cys Phe Pro Ala His Xaa Phe Pro Ser Tyr
      115          120          125
Trp Thr Gly His Ser Phe Ala Ser Gln Ala Trp Leu Arg Gln Val Pro
      130          135          140
Glu Val Ser Lys His Leu Gln Cys Pro Ser Ala Glu Ser Leu Leu Thr
      145          150          155          160
Met Glu Tyr His Gln Pro Glu Asp Pro Ala Pro Gly Lys Ala Gly Thr
      165          170          175
Ala Glu Ala Val Ile Pro Glu Asn His Glu Val Leu Ala Gly Pro Asp
      180          185          190
Glu His Pro Gln Asp Thr Asp Ala Arg Asp Ala Asp Gly Glu Ala Arg
      195          200          205
Glu Arg Glu Pro Arg Arg Pro Ser Phe Ala Ala Xaa Pro Val Trp Gly
      210          215          220
Gln Pro Glu Ser Pro Leu Pro Glu Ala Ser Ser Ala Pro Pro Gly Pro
      225          230          235          240
Thr Leu Gly Thr Leu Pro Glu Val Glu Thr Ile Arg Ala Cys Ser Met
      245          250          255
Pro Gln Glu Leu Pro Xaa Ser Pro Arg Thr Arg Gln Pro Glu Pro Asp
      260          265          270
Phe Tyr Cys Val Lys Trp Ile Pro Trp Lys Gly Glu Gln Thr Pro Ile
      275          280          285
Ile Thr Gln Ser Thr Asn Gly Pro Leu Pro Ser Pro Cys His His Glu
      290          295          300
His Pro Leu Ser Ser Val Glu Gly Glu Ala Pro Pro Ala Glu Gly Ser
      305          310          315          320
Asp His Ile Gly
      324

```

<210> 1829

<211> 717

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(717)

<223> Xaa = any amino acid or nothing

<400> 1829

```

Tyr Ser Pro Ile Arg Leu Leu Glu Val Cys Val Pro Leu Pro Lys Ile
 1           5           10           15
Phe Ile Lys Arg Gln Ala Pro Leu Lys Val Ser Leu Leu Gln Asp Leu
      20           25           30

```

Lys Asp Phe Phe Gln Lys Val Ser Gln Val Tyr Val Ala Ile Asp Glu
 35 40 45
 Arg Leu Ala Ser Leu Lys Thr Asp Thr Phe Ser Lys Thr Arg Glu Glu
 50 55 60
 Lys Met Glu Asp Ile Phe Ala Gln Lys Glu Met Glu Glu Gly Glu Phe
 65 70 75 80
 Lys Asn Trp Ile Glu Lys Met Gln Ala Arg Leu Met Ser Ser Ser Val
 85 90 95
 Asp Thr Pro Gln Gln Leu Gln Ser Val Phe Glu Ser Leu Ile Ala Lys
 100 105 110
 Lys Gln Ser Leu Cys Glu Val Leu Gln Ala Trp Asn Asn Arg Leu Gln
 115 120 125
 Asp Leu Phe Gln Gln Glu Lys Gly Arg Lys Arg Pro Ser Val Pro Pro
 130 135 140
 Ser Pro Gly Arg Leu Arg Gln Gly Glu Glu Ser Lys Ile Ser Ala Met
 145 150 155 160
 Asp Ala Ser Pro Arg Asn Ile Ser Pro Gly Leu Gln Asn Gly Glu Lys
 165 170 175
 Glu Asp Arg Phe Leu Thr Thr Leu Ser Ser Gln Ser Ser Thr Ser Ser
 180 185 190
 Thr His Leu Gln Leu Pro Thr Pro Pro Glu Val Met Ser Glu Gln Ser
 195 200 205
 Val Gly Gly Pro Pro Glu Leu Asp Thr Ala Ser Ser Ser Glu Asp Val
 210 215 220
 Phe Asp Gly His Leu Leu Gly Ser Thr Asp Ser Gln Val Lys Glu Lys
 225 230 235 240
 Ser Thr Met Lys Ala Ile Phe Ala Asn Leu Leu Pro Gly Asn Ser Tyr
 245 250 255
 Asn Pro Ile Pro Phe Pro Phe Asp Pro Asp Lys His Tyr Leu Met Tyr
 260 265 270
 Glu His Glu Arg Val Pro Ile Ala Val Cys Glu Lys Glu Pro Ser Ser
 275 280 285
 Ile Ile Ala Phe Ala Leu Ser Cys Lys Glu Tyr Arg Asn Ala Leu Glu
 290 295 300
 Glu Leu Ser Lys Ala Thr Gln Trp Asn Ser Ala Glu Glu Gly Leu Pro
 305 310 315 320
 Thr Asn Ser Thr Ser Asp Ser Arg Pro Lys Ser Ser Ser Pro Ile Arg
 325 330 335
 Leu Pro Glu Met Ser Gly Gly Gln Thr Asn Arg Thr Thr Glu Thr Glu
 340 345 350
 Pro Gln Pro Thr Lys Lys Ala Ser Gly Met Leu Ser Phe Phe Arg Gly
 355 360 365
 Thr Ala Gly Lys Ser Pro Asp Leu Ser Ser Gln Lys Arg Glu Thr Leu
 370 375 380
 Arg Gly Ala Asp Ser Ala Tyr Tyr Gln Val Gly Gln Thr Gly Lys Glu
 385 390 395 400
 Gly Thr Glu Asn Gln Gly Val Glu Pro Gln Asp Glu Val Asp Gly Gly
 405 410 415
 Asp Thr Gln Lys Lys Gln Leu Ile Asn Pro His Val Glu Leu Gln Phe
 420 425 430
 Ser Asp Ala Asn Ala Lys Phe Tyr Cys Arg Leu Tyr Tyr Ala Gly Glu
 435 440 445
 Phe His Lys Met Arg Glu Val Ile Leu Asp Ser Ser Glu Glu Asp Phe
 450 455 460
 Ile Arg Ser Leu Ser His Ser Ser Pro Trp Gln Ala Arg Gly Gly Lys
 465 470 475 480
 Ser Gly Ala Ala Phe Tyr Ala Thr Glu Asp Asp Arg Phe Ile Leu Lys
 485 490 495
 Gln Met Pro Arg Leu Glu Val Gln Ser Phe Leu Asp Phe Ala Pro His
 500 505 510
 Tyr Phe Asn Tyr Ile Thr Asn Ala Val Gln Gln Lys Arg Pro Thr Ala
 515 520 525
 Leu Ala Lys Ile Leu Gly Val Tyr Arg Ile Gly Tyr Lys Asn Ser Gln
 530 535 540

```

Asn Asn Thr Glu Lys Lys Leu Asp Leu Leu Val Met Glu Asn Leu Phe
545          550          555          560
Tyr Gly Arg Lys Met Ala Gln Val Phe Asp Leu Lys Gly Ser Leu Arg
          565          570          575
Asn Arg Asn Val Lys Thr Asp Thr Gly Lys Glu Ser Cys Asp Val Val
          580          585          590
Leu Leu Asp Glu Asn Leu Leu Lys Met Val Arg Asp Asn Pro Leu Tyr
          595          600          605
Ile Arg Ser His Ser Lys Ala Val Leu Arg Thr Ser Ile His Ser Asp
610          615          620
Ser His Phe Leu Ser Ser His Leu Ile Ile Asp Tyr Ser Leu Leu Val
625          630          635          640
Gly Arg Asp Asp Thr Ser Asn Glu Leu Val Val Gly Ile Ile Asp Tyr
          645          650          655
Ile Arg Thr Phe Thr Trp Asp Lys Lys Leu Glu Met Val Val Lys Ser
          660          665          670
Thr Gly Ile Leu Gly Gly Gln Gly Xaa Met Pro Thr Val Val Ser Pro
          675          680          685
Glu Leu Tyr Arg Thr Arg Phe Cys Glu Ala Met Asp Asn Tyr Phe Leu
690          695          700
Met Val Pro Asp His Cys Thr Gly Leu Gly Leu Asn Cys
705          710          715          717

```

```

<210> 1830
<211> 84
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(82)
<223> Xaa = any amino acid or nothing

```

```

<400> 1830
Gln Gly Cys Gly Ser Ala Gly Thr Leu Ile His Tyr Xaa Xaa Glu Cys
1          5          10          15
Lys Met Val Gln Leu Leu Trp Lys Thr Val Xaa Gln Phe Leu Ile Lys
          20          25          30
Leu Asn Ile Lys Asp Pro Ala Ile Thr Leu Asp Val Tyr Pro Asn Glu
          35          40          45
Val Lys Asn Tyr Val Arg Thr Lys Thr Tyr Thr Gln Met Phe Ile Ala
50          55          60
Asn Phe Ile Met Ala Lys Ser Trp Lys Gln Pro Thr His Pro Ser Val
65          70          75          80
Arg Thr
82

```

```

<210> 1831
<211> 111
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(110)
<223> Xaa = any amino acid or nothing

```

```

<400> 1831
Glu Ala Ala Ile Arg Gln Pro Glu Pro Asn Ile Leu Asp Val Asn Gln
1          5          10          15

```

```

Ile Phe Lys Asp Leu Ala Met Ile Ile His Asp Gln Gly Asp Leu Ile
      20      25      30
Asp Ser Ile Glu Ala Asn Ala Glu Ser Ser Glu Val Leu Val Glu Arg
      35      40      45
Ala Pro Gly Gln Leu Gln Arg Pro Ala Tyr Tyr Gln Lys Lys Ser Arg
      50      55      60
Lys Lys Met Cys Leu Val Val Leu Val Gln Thr Ala Ile Ile Leu Ile
      65      70      75      80
Cys Glu Arg Ile Met Xaa Val Val Tyr Thr Thr Lys Trp Ser Pro Pro
      85      90      95
Ile Val Leu Pro Val Ser Cys Phe Gln Gly Gln Lys Phe Asn
      100      105      110

```

```

<210> 1832
<211> 124
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(123)
<223> Xaa = any amino acid or nothing

```

```

<400> 1832
Thr Gly Gly Arg Gln Gly Lys Asn Asp His Thr Ser Ile Thr Glu Lys
 1      5      10      15
Pro Ser Arg Asp Phe Asn Arg His Leu Ile Thr Gln Asn Ile Xaa Met
      20      25      30
Pro Asn Gln Asp Met Lys Ser Ser Ser Asn Ser Leu Ile Ile Arg Lys
      35      40      45
Val Gln Ile Lys Pro Thr Ile Leu Tyr His His Ile Phe Thr Arg Lys
      50      55      60
Ala Lys Met Lys Thr Thr Asp Lys Thr Lys Tyr Arg Xaa Gly Phe Lys
      65      70      75      80
Ala Ile Thr Thr Leu Ile His Cys Ser Gln Asp Cys Lys Leu Gln Xaa
      85      90      95
Ser Leu Xaa Glu Asn His Phe Met Ile Phe Pro Lys Ala Glu Gln His
      100      105      110
Ile Thr Tyr Asp Thr Thr Ile Pro Phe Leu Arg
      115      120      123

```

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<210> 1833
<211> 146
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(142)
<223> Xaa = any amino acid or nothing

```

```

<400> 1833
Leu Met Lys Asp Leu Ser Pro Tyr Val Met Glu Thr His Tyr Ile Leu
 1      5      10      15
Asn Arg Leu Asn Glu Arg Arg Ser Met Trp Arg His Ile Ile Gly Lys
      20      25      30
Leu Pro Asn Thr Lys Asp Gln Glu Lys Ile Leu Lys Ala Ile Arg Gly
      35      40      45
Arg Arg Glu Val Ile Gln Gly Ser Arg Gln Gln Tyr Arg Arg Pro Ala
      50      55      60

```

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Ala Phe Ser Ala Ala Glu Lys Ala Arg Arg Leu Trp Cys Ser Val Phe
 65          70          75          80
Asn Ile Glu Arg Arg Asn Leu Cys Glu Tyr Pro Thr Lys Leu Ser Phe
          85          90          95
Asn Ile Lys Gly Glu Met Thr Phe Ser Asp Lys Thr Glu Phe Thr Thr
          100          105          110
Asn Arg Pro Ser Leu Lys Met Leu Leu Lys Asp Arg Ile Gln Glu Glu
          115          120          125
Gly Lys Met Phe Xaa Lys Glu Lys Cys Phe Lys Arg Lys Glu
 130          135          140          142

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<210> 1834

<211> 246

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(241)

<223> Xaa = any amino acid or nothing

```

<400> 1834
Phe Phe Phe Phe Glu Thr Glu Ser Arg Ser Val Ala Gln Ala Gly Val
 1          5          10          15
Gln Trp Cys Asn Leu Gly Ser Leu Gln Ala Leu Pro Pro Gly Phe Ser
          20          25          30
His Ser Pro Ala Ser Ala Ser Arg Val Ala Gly Thr Thr Gly Thr Arg
          35          40          45
His Xaa Ala Arg Leu Ile Phe Tyr Ile Phe Ser Arg Asp Gly Val Ser
 50          55          60
Pro Cys Xaa Pro Gly Trp Ser Xaa Ser Pro Asp Leu Val Ile Arg Pro
 65          70          75          80
Pro Arg Leu Pro Lys Cys Trp Asp Tyr Arg Arg Glu Pro Pro Arg Pro
          85          90          95
Ala Xaa Phe Phe Val Phe Leu Val Glu Gln Gly Phe Thr Met Leu Ala
          100          105          110
Arg Met Val Ser Ile Ser Xaa Pro Gln Cys Asp Leu Pro Ala Ser Val
          115          120          125
Ser Gln Asn Ala Gly Ile Thr Gly Val Ser His Cys Ala Trp Pro Cys
 130          135          140
Leu His Phe Cys Phe Phe Gly Phe Phe Phe Glu Met Glu Ser Cys Ser
 145          150          155          160
Val Ala Gln Ala Glu Val Gln Trp His Asp Leu Arg Ser Leu Gln Ala
          165          170          175
Pro Pro Pro Gly Phe Thr Pro Phe Ser Cys Leu Ser Leu Pro Gly Ser
          180          185          190
Trp Asp Tyr Arg Arg Pro Pro Pro Arg Pro Ala Asn Phe Cys Ile Phe
          195          200          205
Ser Arg Asp Gly Val Ser Pro Cys Xaa Pro Gly Trp Ser Arg Ser Pro
 210          215          220
Asp Leu Val Ile Arg Pro Pro Arg Pro Pro Lys Val Leu Gly Leu Gln
 225          230          235          240
Ala
241

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<210> 1835

<211> 81

<212> PRT

<213> Homo sapiens

<221> misc_feature
 <222> (1)...(79)
 <223> Xaa = any amino acid or nothing

<400> 1835
 Phe Phe Phe Phe Glu Met Glu Cys Leu Thr Val Ser Gln Ala Gly Val
 1 5 10 15
 Gln Trp Tyr Asn Leu His Ser Leu Gln Pro Leu Pro Pro Gly Phe Lys
 20 25 30
 Gln Phe Ser Cys Leu Ser Leu Pro Ser Ser Trp Asp Xaa Arg Val Pro
 35 40 45
 Thr Ser Arg Pro Ala Lys Phe Cys Val Ile Phe Xaa Asp Gly Val Ser
 50 55 60
 His Cys Gln Pro Gly Trp Ser Ala Val Val Gln Pro Pro Leu His
 65 70 75 79

<210> 1836
 <211> 94
 <212> PRT
 <213> Homo sapiens

<221> misc_feature
 <222> (1)...(92)
 <223> Xaa = any amino acid or nothing

<400> 1836
 Arg Tyr Asp Xaa Ser Ser Gln Ser Glu Asn Ile Pro Gln Lys Glu Phe
 1 5 10 15
 Leu Leu Lys Tyr Pro Xaa Cys Thr Ala Thr Leu Gly Met Arg Asn Met
 20 25 30
 Ser Ile Met Lys Lys Lys Ser Ile Phe Ser Ala Glu Phe Tyr Lys Val
 35 40 45
 Ser Leu Pro Ser Leu Leu Leu His Leu Leu Ala Ile Glu Trp Gly Phe
 50 55 60
 His Ile Glu Ile Gln Leu Thr Ile His Gln His Phe Leu Asn Tyr Glu
 65 70 75 80
 Leu Glu Ser Asp Phe Val His Ile Val Glu Tyr Met
 85 90 92

<210> 1837
 <211> 152
 <212> PRT
 <213> Homo sapiens

<221> misc_feature
 <222> (1)...(150)
 <223> Xaa = any amino acid or nothing

<400> 1837
 Phe Asp Pro Asp Trp Thr Arg Ala Ala Gly Ile Arg His Glu Lys Lys
 1 5 10 15
 Pro Lys Ala Leu Ala Tyr Arg Arg Glu Asn Ser Pro Gly Asp Leu Pro
 20 25 30
 Pro Pro Pro Leu Pro Pro Pro Glu Glu Ala Ser Trp Ala Leu Gly
 35 40 45
 Ala Glu Gly Ser Arg Gln His Val Leu Pro Gly Ala Gly Ala Gln Trp
 50 55 60

Gly Glu Glu Ser Gly Pro Gly Arg Ala Pro Gly Ser Pro Ala Gly Ala
 65 70 75 80
 Pro Pro Arg Xaa Arg Gly Leu Ala Pro Asn Ser Arg Pro Ser Phe Leu
 85 90 95
 Ser Arg Gly Gln Gly Thr Ser Thr Cys Ser Thr Ala Gly Ser Asn Ser
 100 105 110
 Ser Arg Gly Ser Ser Ser Ser Arg Gly Ser Arg Gly Pro Gly Arg Ser
 115 120 125
 Arg Ser Arg Ser Gln Ser Arg Ser Gln Ser Gln Arg Pro Gly Gln Lys
 130 135 140
 Arg Arg Glu Glu Pro Arg
 145 150

<210> 1838

<211> 260

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(260)

<223> Xaa = any amino acid or nothing

<400> 1838

Phe Arg Ala Cys Leu Leu Glu Leu Ile Pro Tyr Ala Pro Thr Leu Ser
 1 5 10 15
 Trp Thr Ala Cys Pro Pro Ala Met Ala Gly Pro Arg Gly Leu Leu Pro
 20 25 30
 Leu Cys Leu Leu Ala Phe Cys Leu Ala Gly Phe Ser Phe Val Arg Gly
 35 40 45
 Gln Val Leu Phe Lys Gly Cys Asp Val Lys Thr Thr Phe Val Thr His
 50 55 60
 Val Pro Cys Thr Ser Cys Ala Ala Ile Lys Lys Gln Thr Cys Pro Ser
 65 70 75 80
 Gly Trp Leu Arg Glu Leu Pro Asp Gln Ile Thr Gln Asp Cys Arg Tyr
 85 90 95
 Glu Val Gln Leu Gly Gly Ser Met Val Ser Met Ser Gly Cys Arg Arg
 100 105 110
 Lys Cys Arg Lys Gln Val Val Gln Lys Ala Cys Cys Pro Gly Tyr Trp
 115 120 125
 Gly Ser Arg Cys His Glu Cys Pro Gly Gly Ala Glu Thr Pro Cys Asn
 130 135 140
 Gly His Gly Thr Cys Leu Asp Gly Met Asp Arg Asn Gly Thr Cys Val
 145 150 155 160
 Cys Gln Glu Asn Phe Arg Gly Ser Ala Cys Gln Glu Cys Gln Asp Pro
 165 170 175
 Asn Arg Phe Gly Pro Asp Cys Gln Ser Val Cys Ser Cys Val His Gly
 180 185 190
 Val Cys Asn His Gly Pro Arg Gly Asp Gly Ser Cys Leu Cys Phe Ala
 195 200 205
 Gly Tyr Thr Gly Pro His Cys Asp Gln Glu Leu Pro Val Trp Gln Glu
 210 215 220
 Leu Gly Phe Pro Gln Asn Asn Pro Arg Leu Arg Lys Ala Pro Asn Cys
 225 230 235 240
 Lys Cys Leu Pro Gly Xaa His Arg Asn Gly Leu Ile Ala Thr Pro Asn
 245 250 255
 Pro Cys Arg Pro
 260

<210> 1839

<211> 90
 <212> PRT
 <213> Homo sapiens
 <221> misc_feature
 <222> (1)...(89)
 <223> Xaa = any amino acid or nothing

<400> 1839
 Phe Phe Phe Ser Glu Met Glu Ser Arg Ser Val Thr Arg Leu Glu Cys
 1 5 10 15
 Ser Gly Ala Ile Ser Ala His Leu Arg Leu Leu Gly Ser Ser Asn Ser
 20 25 30
 Pro Ala Ser Ala Ser Xaa Val Ala Gly Thr Ile Gly Ala Cys His His
 35 40 45
 Ala Gln Leu Ile Phe Val Phe Leu Val Glu Thr Gly Phe His His Val
 50 55 60
 Gly Gln Asp Gly Leu Asp Leu Leu Asn Leu Met Ile His Pro Pro Arg
 65 70 75 80
 Pro Pro Lys Val Leu Gly Phe Gln Ala
 85 89

<210> 1840
 <211> 3223
 <212> PRT
 <213> Homo sapiens

<400> 1840
 Gly Cys Gln Ser Cys Trp Pro Ala Trp Pro Arg Leu Arg Arg Arg Gly
 1 5 10 15
 Pro Ala Ser Ala Gly Ala Arg Leu Gly Arg Lys Ala Pro Trp Gly Leu
 20 25 30
 Pro Gly Arg Val Gln Asp Gly Arg Pro Leu Arg Phe Cys Phe Tyr Leu
 35 40 45
 Arg Pro Arg Ala Pro Phe Ile Ala Pro Val Leu Ser Gly Ala Ala Ser
 50 55 60
 Arg Pro Glu Ala Ser Gly Asp Cys Arg Ala Gly Arg Glu Thr Ala Met
 65 70 75 80
 Ala Thr Leu Glu Lys Leu Met Lys Ala Phe Glu Ser Leu Lys Ser Phe
 85 90 95
 Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln
 100 105 110
 Gln Gln Gln Gln Gln Gln Gln Pro Pro Pro Pro Pro Pro Pro Pro
 115 120 125
 Pro Pro Gln Leu Pro Gln Pro Pro Pro Gln Ala Gln Pro Leu Leu Pro
 130 135 140
 Gln Pro Gln Pro Pro Pro Pro Pro Pro Pro Pro Pro Gly Pro Ala
 145 150 155 160
 Val Ala Glu Glu Pro Leu His Arg Pro Lys Lys Glu Leu Ser Ala Thr
 165 170 175
 Lys Lys Asp Arg Val Asn His Cys Leu Thr Ile Cys Glu Asn Ile Val
 180 185 190
 Ala Gln Ser Val Arg Asn Ser Pro Glu Phe Gln Lys Leu Leu Gly Ile
 195 200 205
 Ala Met Glu Leu Phe Leu Leu Cys Ser Asp Asp Ala Glu Ser Asp Val
 210 215 220
 Arg Met Val Ala Asp Glu Cys Leu Asn Lys Val Ile Lys Ala Leu Met
 225 230 235 240
 Asp Ser Asn Leu Pro Arg Leu Gln Leu Glu Leu Tyr Lys Glu Ile Lys
 245 250 255

Lys Asn Gly Ala Pro Arg Ser Leu Arg Ala Ala Leu Trp Arg Phe Ala
 260 265 270
 Glu Leu Ala His Leu Val Arg Pro Gln Lys Cys Arg Pro Tyr Leu Val
 275 280 285
 Asn Leu Leu Pro Cys Leu Thr Arg Thr Ser Lys Arg Pro Glu Glu Ser
 290 295 300
 Val Gln Glu Thr Leu Ala Ala Val Pro Lys Ile Met Ala Ser Phe
 305 310 315 320
 Gly Asn Phe Ala Asn Asp Asn Glu Ile Lys Val Leu Leu Lys Ala Phe
 325 330 335
 Ile Ala Asn Leu Lys Ser Ser Ser Pro Thr Ile Arg Arg Thr Ala Ala
 340 345 350
 Gly Ser Ala Val Ser Ile Cys Gln His Ser Arg Arg Thr Gln Tyr Phe
 355 360 365
 Tyr Ser Trp Leu Leu Asn Val Leu Leu Gly Leu Leu Val Pro Val Glu
 370 375 380
 Asp Glu His Ser Thr Leu Leu Ile Leu Gly Val Leu Leu Thr Leu Arg
 385 390 395 400
 Tyr Leu Val Pro Leu Leu Gln Gln Gln Val Lys Asp Thr Ser Leu Lys
 405 410 415
 Gly Ser Phe Gly Val Thr Arg Lys Glu Met Glu Val Ser Pro Ser Ala
 420 425 430
 Glu Gln Leu Val Gln Val Tyr Glu Leu Thr Leu His His Thr Gln His
 435 440 445
 Gln Asp His Asn Val Val Thr Gly Ala Leu Glu Leu Leu Gln Gln Leu
 450 455 460
 Phe Arg Thr Pro Pro Pro Glu Leu Leu Gln Thr Leu Thr Ala Val Gly
 465 470 475 480
 Gly Ile Gly Gln Leu Thr Ala Ala Lys Glu Glu Ser Gly Gly Arg Ser
 485 490 495
 Arg Ser Gly Ser Ile Val Glu Leu Ile Ala Gly Gly Gly Ser Ser Cys
 500 505 510
 Ser Pro Val Leu Ser Arg Lys Gln Lys Gly Lys Val Leu Leu Gly Glu
 515 520 525
 Glu Glu Ala Leu Glu Asp Asp Ser Glu Ser Arg Ser Asp Val Ser Ser
 530 535 540
 Ser Ala Leu Thr Ala Ser Val Lys Asp Glu Ile Ser Gly Glu Leu Ala
 545 550 555 560
 Ala Ser Ser Gly Val Ser Thr Pro Gly Ser Ala Gly His Asp Ile Ile
 565 570 575
 Thr Glu Gln Pro Arg Ser Gln His Thr Leu Gln Ala Asp Ser Val Asp
 580 585 590
 Leu Ala Ser Cys Asp Leu Thr Ser Ser Ala Thr Asp Gly Asp Glu Glu
 595 600 605
 Asp Ile Leu Ser His Ser Ser Ser Gln Val Ser Ala Val Pro Ser Asp
 610 615 620
 Pro Ala Met Asp Leu Asn Asp Gly Thr Gln Ala Ser Ser Pro Ile Ser
 625 630 635 640
 Asp Ser Ser Gln Thr Thr Thr Glu Gly Pro Asp Ser Ala Val Thr Pro
 645 650 655
 Ser Asp Ser Ser Glu Ile Val Leu Asp Gly Thr Asp Asn Gln Tyr Leu
 660 665 670
 Gly Leu Gln Ile Gly Gln Pro Gln Asp Glu Asp Glu Glu Ala Thr Gly
 675 680 685
 Ile Leu Pro Asp Glu Ala Ser Glu Ala Phe Arg Asn Ser Ser Met Ala
 690 695 700
 Leu Gln Gln Ala His Leu Leu Lys Asn Met Ser His Cys Arg Gln Pro
 705 710 715 720
 Ser Asp Ser Ser Val Asp Lys Phe Val Leu Arg Asp Glu Ala Thr Glu
 725 730 735
 Pro Gly Asp Gln Glu Asn Lys Pro Cys Arg Ile Lys Gly Asp Ile Gly
 740 745 750
 Gln Ser Thr Asp Asp Asp Ser Ala Pro Leu Val His Cys Val Arg Leu
 755 760 765

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Leu Ser Ala Ser Phe Leu Leu Thr Gly Gly Lys Asn Val Leu Val Pro
770              775              780
Asp Arg Asp Val Arg Val Ser Val Lys Ala Leu Ala Leu Ser Cys Val
785              790              795              800
Gly Ala Ala Val Ala Leu His Pro Glu Ser Phe Phe Ser Lys Leu Tyr
805              810              815
Lys Val Pro Leu Asp Thr Thr Glu Tyr Pro Glu Glu Gln Tyr Val Ser
820              825              830
Asp Ile Leu Asn Tyr Ile Asp His Gly Asp Pro Gln Val Arg Gly Ala
835              840              845
Thr Ala Ile Leu Cys Gly Thr Leu Ile Cys Ser Ile Leu Ser Arg Ser
850              855              860
Arg Phe His Val Gly Asp Trp Met Gly Thr Ile Arg Thr Leu Thr Gly
865              870              875              880
Asn Thr Phe Ser Leu Ala Asp Cys Ile Pro Leu Leu Arg Lys Thr Leu
885              890              895
Lys Asp Glu Ser Ser Val Thr Cys Lys Leu Ala Cys Thr Ala Val Arg
900              905              910
Asn Cys Val Met Ser Leu Cys Ser Ser Tyr Ser Glu Leu Gly Leu
915              920              925
Gln Leu Ile Ile Asp Val Leu Thr Leu Arg Asn Ser Ser Tyr Trp Leu
930              935              940
Val Arg Thr Glu Leu Leu Glu Thr Leu Ala Glu Ile Asp Phe Arg Leu
945              950              955              960
Val Ser Phe Leu Glu Ala Lys Ala Glu Asn Leu His Arg Gly Ala His
965              970              975
His Tyr Thr Gly Leu Leu Lys Leu Gln Glu Arg Val Leu Asn Asn Val
980              985              990
Val Ile His Leu Leu Gly Asp Glu Asp Pro Arg Val Arg His Val Ala
995              1000              1005
Ala Ala Ser Leu Ile Arg Leu Val Pro Lys Leu Phe Tyr Lys Cys Asp
1010              1015              1020
Gln Gly Gln Ala Asp Pro Val Val Ala Val Ala Arg Asp Gln Ser Ser
1025              1030              1035              1040
Val Tyr Leu Lys Leu Leu Met His Glu Thr Gln Pro Pro Ser His Phe
1045              1050              1055
Ser Val Ser Thr Ile Thr Arg Ile Tyr Arg Gly Tyr Asn Leu Leu Pro
1060              1065              1070
Ser Ile Thr Asp Val Thr Met Glu Asn Asn Leu Ser Arg Val Ile Ala
1075              1080              1085
Ala Val Ser His Glu Leu Ile Thr Ser Thr Thr Arg Ala Leu Thr Phe
1090              1095              1100
Gly Cys Cys Glu Ala Leu Cys Leu Leu Ser Thr Ala Phe Pro Val Cys
1105              1110              1115              1120
Ile Trp Ser Leu Gly Trp His Cys Gly Val Pro Pro Leu Ser Ala Ser
1125              1130              1135
Asp Glu Ser Arg Lys Ser Cys Thr Val Gly Met Ala Thr Met Ile Leu
1140              1145              1150
Thr Leu Leu Ser Ser Ala Trp Phe Pro Leu Asp Leu Ser Ala His Gln
1155              1160              1165
Asp Ala Leu Ile Leu Ala Gly Asn Leu Leu Ala Ala Ser Ala Pro Lys
1170              1175              1180
Ser Leu Arg Ser Ser Trp Ala Ser Glu Glu Glu Ala Asn Pro Ala Ala
1185              1190              1195              1200
Thr Lys Gln Glu Glu Val Trp Pro Ala Leu Gly Asp Arg Ala Leu Val
1205              1210              1215
Pro Met Val Glu Gln Leu Phe Ser His Leu Leu Lys Val Ile Asn Ile
1220              1225              1230
Cys Ala His Val Leu Asp Asp Val Ala Pro Gly Pro Ala Ile Lys Ala
1235              1240              1245
Ala Leu Pro Ser Leu Thr Asn Pro Pro Ser Leu Ser Pro Ile Arg Arg
1250              1255              1260
Lys Gly Lys Glu Lys Glu Pro Gly Glu Gln Ala Ser Val Pro Leu Ser
1265              1270              1275              1280

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Pro Lys Lys Gly Ser Glu Ala Ser Ala Ala Ser Arg Gln Ser Asp Thr
 1285 1290 1295
 Ser Gly Pro Val Thr Thr Ser Lys Ser Ser Ser Leu Gly Ser Phe Tyr
 1300 1305 1310
 His Leu Pro Ser Tyr Leu Lys Leu His Asp Val Leu Lys Ala Thr His
 1315 1320 1325
 Ala Asn Tyr Lys Val Thr Leu Asp Leu Gln Asn Ser Thr Glu Lys Phe
 1330 1335 1340
 Gly Gly Phe Leu Arg Ser Ala Leu Asp Val Leu Ser Gln Ile Leu Glu
 1345 1350 1355 1360
 Leu Ala Thr Leu Gln Asp Ile Gly Lys Cys Val Glu Glu Ile Leu Gly
 1365 1370 1375
 Tyr Leu Lys Ser Cys Phe Ser Arg Glu Pro Met Met Ala Thr Val Cys
 1380 1385 1390
 Val Gln Gln Leu Leu Lys Thr Leu Phe Gly Thr Asn Leu Ala Ser Gln
 1395 1400 1405
 Phe Asp Gly Leu Ser Ser Asn Pro Ser Lys Ser Gln Gly Arg Ala Gln
 1410 1415 1420
 Arg Leu Gly Ser Ser Ser Val Arg Pro Gly Leu Tyr His Tyr Cys Phe
 1425 1430 1435 1440
 Met Ala Pro Tyr Thr His Phe Thr Gln Ala Leu Ala Asp Ala Ser Leu
 1445 1450 1455
 Arg Asn Met Val Gln Ala Glu Gln Glu Asn Asp Thr Ser Gly Trp Phe
 1460 1465 1470
 Asp Val Leu Gln Lys Val Ser Thr Gln Leu Lys Thr Asn Leu Thr Ser
 1475 1480 1485
 Val Thr Lys Asn Arg Ala Asp Lys Asn Ala Ile His Asn His Ile Arg
 1490 1495 1500
 Leu Phe Glu Pro Leu Val Ile Lys Ala Leu Lys Gln Tyr Thr Thr Thr
 1505 1510 1515 1520
 Thr Cys Val Gln Leu Gln Lys Gln Val Leu Asp Leu Leu Ala Gln Leu
 1525 1530 1535
 Val Gln Leu Arg Val Asn Tyr Cys Leu Leu Asp Ser Asp Gln Val Phe
 1540 1545 1550
 Ile Gly Phe Val Leu Lys Gln Phe Glu Tyr Ile Glu Val Gly Gln Phe
 1555 1560 1565
 Arg Glu Ser Glu Ala Ile Ile Pro Asn Ile Phe Phe Phe Leu Val Leu
 1570 1575 1580
 Leu Ser Tyr Glu Arg Tyr His Ser Lys Gln Ile Ile Gly Ile Pro Lys
 1585 1590 1595 1600
 Ile Ile Gln Leu Cys Asp Gly Ile Met Ala Ser Gly Arg Lys Ala Val
 1605 1610 1615
 Thr His Ala Ile Pro Ala Leu Gln Pro Ile Val His Asp Leu Phe Val
 1620 1625 1630
 Leu Arg Gly Thr Asn Lys Ala Asp Ala Gly Lys Glu Leu Glu Thr Gln
 1635 1640 1645
 Lys Glu Val Val Val Ser Met Leu Leu Arg Leu Ile Gln Tyr His Gln
 1650 1655 1660
 Val Leu Glu Met Phe Ile Leu Val Leu Gln Gln Cys His Lys Glu Asn
 1665 1670 1675 1680
 Glu Asp Lys Trp Lys Arg Leu Ser Arg Gln Ile Ala Asp Ile Ile Leu
 1685 1690 1695
 Pro Met Leu Ala Lys Gln Gln Met His Ile Asp Ser His Glu Ala Leu
 1700 1705 1710
 Gly Val Leu Asn Thr Leu Phe Glu Ile Leu Ala Pro Ser Ser Leu Arg
 1715 1720 1725
 Pro Val Asp Met Leu Leu Arg Ser Met Phe Val Thr Pro Asn Thr Met
 1730 1735 1740
 Ala Ser Val Ser Thr Val Gln Leu Trp Ile Ser Gly Ile Leu Ala Ile
 1745 1750 1755 1760
 Leu Arg Val Leu Ile Ser Gln Ser Thr Glu Asp Ile Val Leu Ser Arg
 1765 1770 1775
 Ile Gln Glu Leu Ser Phe Ser Pro Tyr Leu Ile Ser Cys Thr Val Ile
 1780 1785 1790

Asn Arg Leu Arg Asp Gly Asp Ser Thr Ser Thr Leu Glu Glu His Ser
 1795 1800 1805
 Glu Gly Lys Gln Ile Lys Asn Leu Pro Glu Glu Thr Phe Ser Arg Phe
 1810 1815 1820
 Leu Leu Gln Leu Val Gly Ile Leu Leu Glu Asp Ile Val Thr Lys Gln
 1825 1830 1835 1840
 Leu Lys Val Glu Met Ser Glu Gln Gln His Thr Phe Tyr Cys Gln Glu
 1845 1850 1855
 Leu Gly Thr Leu Leu Met Cys Leu Ile His Ile Phe Lys Ser Gly Met
 1860 1865 1870
 Phe Arg Arg Ile Thr Ala Ala Ala Thr Arg Leu Phe Arg Ser Asp Gly
 1875 1880 1885
 Cys Gly Gly Ser Phe Tyr Thr Leu Asp Ser Leu Asn Leu Arg Ala Arg
 1890 1895 1900
 Ser Met Ile Thr Thr His Pro Ala Leu Val Leu Leu Trp Cys Gln Ile
 1905 1910 1915 1920
 Leu Leu Leu Val Asn His Thr Asp Tyr Arg Trp Trp Ala Glu Val Gln
 1925 1930 1935
 Gln Thr Pro Lys Arg His Ser Leu Ser Ser Thr Lys Leu Leu Ser Pro
 1940 1945 1950
 Gln Met Ser Gly Glu Glu Glu Asp Ser Asp Leu Ala Ala Lys Leu Gly
 1955 1960 1965
 Met Cys Asn Arg Glu Ile Val Arg Arg Gly Ala Leu Ile Leu Phe Cys
 1970 1975 1980
 Asp Tyr Val Cys Gln Asn Leu His Asp Ser Glu His Leu Thr Trp Leu
 1985 1990 1995 2000
 Ile Val Asn His Ile Gln Asp Leu Ile Ser Leu Ser His Glu Pro Pro
 2005 2010 2015
 Val Gln Asp Phe Ile Ser Ala Val His Arg Asn Ser Ala Ala Ser Gly
 2020 2025 2030
 Leu Phe Ile Gln Ala Ile Gln Ser Arg Cys Glu Asn Leu Ser Thr Pro
 2035 2040 2045
 Thr Met Leu Lys Lys Thr Leu Gln Cys Leu Glu Gly Ile His Leu Ser
 2050 2055 2060
 Gln Ser Gly Ala Val Leu Thr Leu Tyr Val Asp Arg Leu Leu Cys Thr
 2065 2070 2075 2080
 Pro Phe Arg Val Leu Ala Arg Met Val Asp Ile Leu Ala Cys Arg Arg
 2085 2090 2095
 Val Glu Met Leu Leu Ala Ala Asn Leu Gln Ser Ser Met Ala Gln Leu
 2100 2105 2110
 Pro Met Glu Glu Leu Asn Arg Ile Gln Glu Tyr Leu Gln Ser Ser Gly
 2115 2120 2125
 Leu Ala Gln Arg His Gln Arg Leu Tyr Ser Leu Leu Asp Arg Phe Arg
 2130 2135 2140
 Leu Ser Thr Met Gln Asp Ser Leu Ser Pro Ser Pro Pro Val Ser Ser
 2145 2150 2155 2160
 His Pro Leu Asp Gly Asp Gly His Val Ser Leu Glu Thr Val Ser Pro
 2165 2170 2175
 Asp Lys Asp Trp Tyr Val His Leu Val Lys Ser Gln Cys Trp Thr Arg
 2180 2185 2190
 Ser Asp Ser Ala Leu Leu Glu Gly Ala Glu Leu Val Asn Arg Ile Pro
 2195 2200 2205
 Ala Glu Asp Met Asn Ala Phe Met Met Asn Ser Glu Phe Asn Leu Ser
 2210 2215 2220
 Leu Leu Ala Pro Cys Leu Ser Leu Gly Met Ser Glu Ile Ser Gly Gly
 2225 2230 2235 2240
 Gln Lys Ser Ala Phe Glu Ala Ala Arg Glu Val Thr Leu Ala Arg
 2245 2250 2255
 Val Ser Gly Thr Val Gln Gln Leu Pro Ala Val His His Val Phe Gln
 2260 2265 2270
 Pro Glu Leu Pro Ala Glu Pro Ala Ala Tyr Trp Ser Lys Leu Asn Asp
 2275 2280 2285
 Leu Phe Gly Asp Ala Ala Leu Tyr Gln Ser Leu Pro Thr Leu Ala Arg
 2290 2295 2300

Ala Leu Ala Gln Tyr Leu Val Val Val Ser Lys Leu Pro Ser His Leu
 2305 2310 2315 2320
 His Leu Pro Pro Glu Lys Glu Lys Asp Ile Val Lys Phe Val Val Ala
 2325 2330 2335
 Thr Leu Glu Ala Leu Ser Trp His Leu Ile His Glu Gln Ile Pro Leu
 2340 2345 2350
 Ser Leu Asp Leu Gln Ala Gly Leu Asp Cys Cys Cys Leu Ala Leu Gln
 2355 2360 2365
 Leu Pro Gly Leu Trp Ser Val Val Ser Ser Thr Glu Phe Val Thr His
 2370 2375 2380
 Ala Cys Ser Leu Ile Tyr Cys Val His Phe Ile Leu Glu Ala Val Ala
 2385 2390 2395 2400
 Val Gln Pro Gly Glu Gln Leu Leu Ser Pro Glu Arg Arg Thr Asn Thr
 2405 2410 2415
 Pro Lys Ala Ile Ser Glu Glu Glu Glu Val Asp Pro Asn Thr Gln
 2420 2425 2430
 Asn Pro Lys Tyr Ile Thr Ala Ala Cys Glu Met Val Ala Glu Met Val
 2435 2440 2445
 Glu Ser Leu Gln Ser Val Leu Ala Leu Gly His Lys Arg Asn Ser Gly
 2450 2455 2460
 Val Pro Ala Phe Leu Thr Pro Leu Leu Arg Asn Ile Ile Ile Ser Leu
 2465 2470 2475 2480
 Ala Arg Leu Pro Leu Val Asn Ser Tyr Thr Arg Val Pro Pro Leu Val
 2485 2490 2495
 Trp Lys Leu Gly Trp Ser Pro Lys Pro Gly Gly Asp Phe Gly Thr Ala
 2500 2505 2510
 Phe Pro Glu Ile Pro Val Glu Phe Leu Gln Glu Lys Glu Val Phe Lys
 2515 2520 2525
 Glu Phe Ile Tyr Arg Ile Asn Thr Leu Gly Trp Thr Ser Arg Thr Gln
 2530 2535 2540
 Phe Glu Glu Thr Trp Ala Thr Leu Leu Gly Val Leu Val Thr Gln Pro
 2545 2550 2555 2560
 Leu Val Met Glu Gln Glu Glu Ser Pro Pro Glu Glu Asp Thr Glu Arg
 2565 2570 2575
 Thr Gln Ile Asn Val Leu Ala Val Gln Ala Ile Thr Ser Leu Val Leu
 2580 2585 2590
 Ser Ala Met Thr Val Pro Val Ala Gly Asn Pro Ala Val Ser Cys Leu
 2595 2600 2605
 Glu Gln Gln Pro Arg Asn Lys Pro Leu Lys Ala Leu Asp Thr Arg Phe
 2610 2615 2620
 Gly Arg Lys Leu Ser Ile Ile Arg Gly Ile Val Glu Gln Glu Ile Gln
 2625 2630 2635 2640
 Ala Met Val Ser Lys Arg Glu Asn Ile Ala Thr His His Leu Tyr Gln
 2645 2650 2655
 Ala Trp Asp Pro Val Pro Ser Leu Ser Pro Ala Thr Thr Gly Ala Leu
 2660 2665 2670
 Ile Ser His Glu Lys Leu Leu Leu Gln Ile Asn Pro Glu Arg Glu Leu
 2675 2680 2685
 Gly Ser Met Ser Tyr Lys Leu Gly Gln Val Ser Ile His Ser Val Trp
 2690 2695 2700
 Leu Gly Asn Ser Ile Thr Pro Leu Arg Glu Glu Glu Trp Asp Glu Glu
 2705 2710 2715 2720
 Glu Glu Glu Glu Ala Asp Ala Pro Ala Pro Ser Ser Pro Pro Thr Ser
 2725 2730 2735
 Pro Val Asn Ser Arg Lys His Arg Ala Gly Val Asp Ile His Ser Cys
 2740 2745 2750
 Ser Gln Phe Leu Leu Glu Leu Tyr Ser Arg Trp Ile Leu Pro Ser Ser
 2755 2760 2765
 Ser Ala Arg Arg Thr Pro Ala Ile Leu Ile Ser Glu Val Val Arg Ser
 2770 2775 2780
 Leu Leu Val Val Ser Asp Leu Phe Thr Glu Arg Asn Gln Phe Glu Leu
 2785 2790 2795 2800
 Met Tyr Val Thr Leu Thr Glu Leu Arg Arg Val His Pro Ser Glu Asp
 2805 2810 2815

Glu Ile Leu Ala Gln Tyr Leu Val Pro Ala Thr Cys Lys Ala Ala Ala
 2820 2825 2830
 Val Leu Gly Met Asp Lys Ala Val Ala Glu Pro Val Ser Arg Leu Leu
 2835 2840 2845
 Glu Ser Thr Leu Arg Ser Ser His Leu Pro Ser Arg Val Gly Ala Leu
 2850 2855 2860
 His Gly Val Leu Tyr Val Leu Glu Cys Asp Leu Leu Asp Asp Thr Ala
 2865 2870 2875 2880
 Lys Gln Leu Ile Pro Val Ile Ser Asp Tyr Leu Leu Ser Asn Leu Lys
 2885 2890 2895
 Gly Ile Ala His Cys Val Asn Ile His Ser Gln Gln His Val Leu Val
 2900 2905 2910
 Met Cys Ala Thr Ala Phe Tyr Leu Ile Glu Asn Tyr Pro Leu Asp Val
 2915 2920 2925
 Gly Pro Glu Phe Ser Ala Ser Ile Ile Gln Met Cys Gly Val Met Leu
 2930 2935 2940
 Ser Gly Ser Glu Glu Ser Thr Pro Ser Ile Ile Tyr His Cys Ala Leu
 2945 2950 2955 2960
 Arg Gly Leu Glu Arg Leu Leu Leu Ser Glu Gln Leu Ser Arg Leu Asp
 2965 2970 2975
 Ala Glu Ser Leu Val Lys Leu Ser Val Asp Arg Val Asn Val His Ser
 2980 2985 2990
 Pro His Arg Ala Met Ala Ala Leu Gly Leu Met Leu Thr Cys Met Tyr
 2995 3000 3005
 Thr Gly Lys Glu Lys Val Ser Pro Gly Arg Thr Ser Asp Pro Asn Pro
 3010 3015 3020
 Ala Ala Pro Asp Ser Glu Ser Val Ile Val Ala Met Glu Arg Val Ser
 3025 3030 3035 3040
 Val Leu Phe Asp Arg Ile Arg Lys Gly Phe Pro Cys Glu Ala Arg Val
 3045 3050 3055
 Val Ala Arg Ile Leu Pro Gln Phe Leu Asp Asp Phe Phe Pro Pro Gln
 3060 3065 3070
 Asp Ile Met Asn Lys Val Ile Gly Glu Phe Leu Ser Asn Gln Gln Pro
 3075 3080 3085
 Tyr Pro Gln Phe Met Ala Thr Val Val Tyr Lys Val Phe Gln Thr Leu
 3090 3095 3100
 His Ser Thr Gly Gln Ser Ser Met Val Arg Asp Trp Val Met Leu Ser
 3105 3110 3115 3120
 Leu Ser Asn Phe Thr Gln Arg Ala Pro Val Ala Met Ala Thr Trp Ser
 3125 3130 3135
 Leu Ser Cys Phe Phe Val Ser Ala Ser Thr Ser Pro Trp Val Ala Ala
 3140 3145 3150
 Ile Leu Pro His Val Ile Ser Arg Met Gly Lys Leu Glu Gln Val Asp
 3155 3160 3165
 Val Asn Leu Phe Cys Leu Val Ala Thr Asp Phe Tyr Arg His Gln Ile
 3170 3175 3180
 Glu Glu Glu Leu Asp Arg Ala Phe Gln Ser Val Leu Glu Val Val
 3185 3190 3195 3200
 Ala Ala Pro Gly Ser Pro Tyr His Arg Leu Leu Thr Cys Leu Arg Asn
 3205 3210 3215
 Val His Lys Val Thr Thr Cys
 3220 3223

<210> 1841
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1841
 Ser Asn Pro Pro Ala Ser Ala Ser Arg Val Ala Gly Ile Thr Gly Val
 1 5 10 15

```

His Gln His Ala Trp Leu Ile Phe Val Phe Leu Val Glu Met Glu Phe
      20              25              30
His His Val Gly Gln Ala Val Leu Lys Leu Leu Ile Ser Gly Asp Leu
      35              40              45
Pro Val Ser Ala Ser Gln Ser Ala
      50              55 56

```

```

<210> 1842
<211> 104
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(101)
<223> Xaa = any amino acid or nothing

```

```

<400> 1842
Val Ala Pro Ser Pro Met Ile Met Pro Asp Leu Tyr Phe Tyr Arg Asp
 1              5              10              15
Pro Glu Glu Ile Glu Lys Glu Glu Xaa Ala Ala Ala Glu Lys Glu Glu
      20              25              30
Phe Gln Ser Glu Trp Thr Ala Val Val Pro Glu Phe Thr Ala Thr Gln
      35              40              45
Ser Glu Val Ala Asp Trp Phe Lys Asp Met Gln Val Pro Ser Val Pro
      50              55              60
Ile Gln Gln Phe Pro Thr Glu Asp Trp Ser Thr Xaa Pro Thr Met Asn
      65              70              75              80
Asp Trp Ser Ala Thr Ser Thr Ala Gln Thr Thr Glu Trp Val Arg Ile
      85              90              95
Thr Thr Glu Trp Pro
      100 101

```

```

<210> 1843
<211> 121
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(119)
<223> Xaa = any amino acid or nothing

```

```

<400> 1843
Thr Pro Ser Asp Met Asn Arg Ala Phe Glu Thr Asp Thr Gln Ser Ile
 1              5              10              15
Gly Glu Lys Asn Arg Ser Pro Ser Glu Pro Asp Tyr Phe Glu Arg Lys
      20              25              30
Lys Phe Lys Arg Ser Xaa Glu Lys Ala His Ile Arg Tyr Lys Ile Asp
      35              40              45
Gln Pro Glu Asp Ile Pro Leu Lys Glu Phe Leu Cys Lys His Ser Lys
      50              55              60
Cys Thr Ala Thr Leu Ser Met Arg Asn Met Ser Leu Met Lys Lys Lys
      65              70              75              80
Cys Ser Phe Ser Glu Glu Phe Leu Ala Phe Phe Pro Ser Leu Leu Val
      85              90              95
Cys His Leu Leu Ala Ile Lys Leu Gly Phe Tyr Ile Glu Ile His Leu
      100              105              110
Thr Thr Phe Asn Asn Thr Phe
      115              119

```

<210> 1844
 <211> 120
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(116)
 <223> Xaa = any amino acid or nothing

<400> 1844
 Phe Phe Phe Leu Arg Arg Ser Leu Asp Ser Val Ala Gln Ala Glu Ala
 1 5 10 15
 Gln Trp Leu Glu Leu Gly Leu Leu Gln Ala Pro Pro Pro Gly Phe Lys
 20 25 30
 Pro Ile Ser Leu Pro Gly Leu Pro Ser Ser Trp Asp Tyr Gly Arg Pro
 35 40 45
 Pro Pro Cys Pro Ala Asn Phe Cys Ile Phe Met Xaa Arg Arg Gly Phe
 50 55 60
 Thr Val Leu Ala Arg Met Val Leu Ile Ser Xaa Pro Cys Asp Pro Pro
 65 70 75 80
 Thr Leu Ala Ser Gln Gly Thr Ala Ile Thr Gly Met Ser Tyr His Ala
 85 90 95
 Arg Pro Gln Asp Ile Asp Phe Leu Tyr Ala His Gln Gly Arg Cys Trp
 100 105 110
 Phe Arg Leu Leu
 115 116

<210> 1845
 <211> 581
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(575)
 <223> Xaa = any amino acid or nothing

<400> 1845
 Asp Ile Phe Phe Arg Arg Ala Lys Glu Gly Met Gly Gln Asp Glu Ala
 1 5 10 15
 Gln Phe Ser Val Glu Met Pro Leu Thr Gly Lys Ala Tyr Leu Trp Ala
 20 25 30
 Asp Lys Tyr Arg Pro Arg Lys Pro Arg Phe Phe Asn Arg Val His Thr
 35 40 45
 Gly Phe Glu Trp Asn Lys Tyr Asn Gln Thr His Tyr Asp Phe Asp Asn
 50 55 60
 Pro Pro Pro Lys Ile Val Gln Gly Tyr Lys Phe Asn Ile Phe Tyr Pro
 65 70 75 80
 Asp Leu Ile Asp Lys Arg Ser Thr Pro Glu Tyr Phe Leu Glu Ala Cys
 85 90 95
 Ala Asp Asn Lys Asp Phe Ala Ile Leu Arg Phe His Ala Gly Pro Pro
 100 105 110
 Tyr Glu Asp Ile Ala Phe Lys Ile Val Asn Arg Glu Trp Glu Tyr Ser
 115 120 125
 His Arg His Gly Phe Arg Cys Gln Phe Ala Asn Gly Ile Phe Gln Leu
 130 135 140
 Trp Phe His Phe Lys Arg Tyr Arg Tyr Arg Arg Xaa Arg Pro Trp Gly
 145 150 155 160


```

Thr Ala Gly Arg Cys Pro Arg Gly His Ser Lys Gly Ala Ser Val Lys
      165      170      175
Leu Val Val Thr Pro Gly Pro Leu Ser Gly Leu Gln Gly Arg Gly Phe
      180      185      190
Thr Ser His Leu Arg Pro His Leu Ser Phe Ala Arg Pro Gln Phe Pro
      195      200      205
Pro Ile Xaa Lys Gly Gly His His Xaa Ala Cys His Gly Glu Leu Arg
      210      215      220
Arg His Trp Asp Arg Leu Ala Xaa Gly Pro Asp Ala Thr Glu Gly Ala
      225      230      235
Leu Gly Ala Ser Phe Glu His Glu Gly Gly Gln Gln Pro Pro Ala Asp
      245      250      255
Leu Thr Val Gln Ala Asp Thr Leu His Arg Pro Ser Ala Arg Leu Gly
      260      265      270
Gly Ala His Arg Ala Cys Pro Lys Arg Arg Pro His Arg Val Leu Trp
      275      280      285
Arg Trp Ala Arg Gly Ala Trp Ala Trp Arg Cys Gln Ala Arg Glu Lys
      290      295      300
Gln Glu Thr Gln Gly Gln Pro Cys His Ile Thr Gly His Pro Leu Gly
      305      310      315
Arg Glu Ala Glu Pro Ala Ala Ala Gly Ala Ala Pro Ala Leu Ala His
      325      330      335
Arg Pro Pro Phe Ala Arg Thr Gly Ser Thr Glu Pro Gly Pro Cys Trp
      340      345      350
Arg Pro Ile Arg His Cys Arg Arg Asp Pro Leu Trp Thr Pro Thr Leu
      355      360      365
Cys Arg Asp Trp Pro Pro Thr His Pro Val Leu Ala Gly Gly Val His
      370      375      380
Phe Pro Ala Ala Gly Ile Gly Gly Cys Val Glu Val Pro Val Ser Val
      385      390      395
Asn Val Met Gly Thr Lys Ser His Xaa Ala Val Leu Pro Pro Pro Pro
      405      410      415
Ser Thr Gly Pro Gly Gly Gln Gly Leu Pro Glu Gly Trp Gly Leu Glu
      420      425      430
Lys Gly Glu Gly Leu Pro Pro Gly Ile Pro Pro Pro Gly Leu Leu Thr
      435      440      445
Gly Pro Trp Ser Met Arg Pro Val Thr Pro Ser Phe Ala His Ile Arg
      450      455      460
Thr Val Ala Pro Ser His Ser Pro Phe Ser Gly Gln Glu Gly Arg Gly
      465      470      475
Pro His Gly Cys His Ser Pro Gly Arg Ser Gly Pro Ala Gly Arg Leu
      485      490      495
Val Leu Gln His Pro Thr Gly Thr Ser Pro Thr Glu Ala Lys Arg Lys
      500      505      510
Val Pro Pro Gly Pro Pro Glu Gly His Pro Thr Ser Pro Val Thr Ser
      515      520      525
Pro Arg Pro Pro Thr Ala Pro Pro Arg His Pro Ala Ser Ser Gly Asn
      530      535      540
Ser Ser Val Cys Phe Ser Lys Lys Thr Cys Arg Trp Glu Lys Lys Ser
      545      550      555
Phe Val Leu Met Glu Leu Ala Tyr Trp Gln Asp Arg Met Phe Phe
      565      570      575

```

<210> 1846

<211> 130

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(129)

<223> Xaa = any amino acid or nothing

<400> 1846

```

Ala Lys Ser Pro Leu Pro Leu Gly Xaa Ile Gln Trp Arg Asn Leu Gly
 1          5          10          15
Ser Leu Lys Leu Arg Leu Pro Gly Phe Lys Xaa Phe Thr Cys Leu Gly
          20          25          30
Leu Leu Ser Ser Trp Asp Tyr Arg Ser Leu Pro Pro Arg Pro Val Asn
          35          40          45
Phe Cys Ile Leu Val Glu Leu Gly Phe His His Val Asp Gln Ala Gly
          50          55          60
Leu Lys Leu Leu Thr Ser Ser Ala Leu Pro Ala Leu Ala Ser Gln Ser
65          70          75          80
Ala Glu Ile Thr Gly Met Ser His Arg Ile Trp Pro Leu Pro Leu Leu
          85          90          95
Arg Arg Pro Pro Val Ile Arg Ile Arg Ala Pro Pro Gln Arg Leu Pro
          100          105          110
Phe Asn Leu Ile Thr Ser Leu Lys Ala Leu Ser Pro Asn Met Ala Thr
          115          120          125
Phe
129

```

<210> 1847

<211> 132

<212> PRT

<213> Homo sapiens

<400> 1847

```

Ala Leu Arg Lys Thr Arg Arg Asp Gly Ile Ala Arg Thr Gly Ala Gln
 1          5          10          15
Pro Ala Ala Ser Trp Lys Gly Thr Asn Asn Tyr Pro Trp Arg Leu Glu
          20          25          30
Met Ala Gly Arg Pro Gly Ser Gln Glu Gln Ser Lys Asp Arg Gly Thr
          35          40          45
Gly Ser Leu Pro Pro Pro Ser Gln Arg Pro Leu Gly Pro Ser Pro Glu
          50          55          60
Gly Ala Gly Pro Ser Pro Pro Pro Gly Ile Pro Arg Gly Gly Gly
65          70          75          80
Ser Ser Ser Ser Glu Gly Pro Pro Gln Leu Leu Phe Val Pro Arg Arg
          85          90          95
Phe Pro Ala Pro Lys Lys Gly Leu Pro Ser Asp Thr Pro His Ser Lys
          100          105          110
Ala Pro Pro Thr Pro His Leu Ile Leu Gly Gly Glu Asp Ser Gln Val
          115          120          125
Pro Ile Leu
130 131

```

<210> 1848

<211> 128

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(126)

<223> Xaa = any amino acid or nothing

<400> 1848

```

Lys Asn Ala Ser Thr Val Tyr Ser Ser Gln Gly Asp Pro Lys Ser Phe
 1          5          10          15

```

```

Phe Phe Leu Leu Arg Trp Ser Leu Ala Leu Val Ala Gln Ala Gly Glu
      20      25      30
Gln Xaa Arg Asp Leu Ser Ser Leu Gln Pro Pro Pro Pro Gly Phe Lys
      35      40      45
Xaa Phe Ser Cys Leu Ser Leu Pro Ser Ser Trp Asp Tyr Arg Cys Pro
      50      55      60
Leu Pro Cys Leu Ala Asn Phe Xaa Phe Leu Val Glu Thr Gly Phe His
      65      70      75      80
His Val Gly Gln Ala Asp Leu Lys Leu Leu Thr Ser Gly Asp Pro Pro
      85      90      95
Thr Ser Ala Ser Glu Ser Ala Gly Ile Thr Gly Val Ser His Arg Ala
      100      105      110
Trp Pro Arg Ile His Phe Leu Tyr Trp Lys Thr Phe Phe Leu
      115      120      125 126

```

<210> 1849

<211> 177

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(174)

<223> Xaa = any amino acid or nothing

<400> 1849

```

Ala Pro Ser Gln Ile Ser Val Ala Phe Leu Tyr Ala Ala Asp Lys Leu
 1      5      10      15
Phe Glu Lys Glu Ile Xaa Lys Lys Ile Pro Phe Ile Ile Ala Ser Asp
      20      25      30
Lys Ile Lys Ile Gly Ile Asn Leu Thr Lys Glu Val Lys Tyr Leu Tyr
      35      40      45
Thr Glu Asn Tyr Ile Thr Leu Met Lys Glu Ile Lys Asp Thr Asp Lys
      50      55      60
Trp Lys Asp Ile Leu Tyr Xaa Trp Ile Gly Lys Ile Asn Ile Xaa Lys
      65      70      75      80
Met Ser Thr Pro Pro Lys Ala Ile Tyr Arg Phe Asn Ala Ile Pro Thr
      85      90      95
Lys Ile Pro Met Thr Phe Phe Thr Glu Ile Glu Lys Ser Ile Ile Lys
      100      105      110
Phe Ile Trp Asn His Lys Lys Pro Pro Asn Thr Gln Ser Asn Ile Glu
      115      120      125
Gln Lys Glu Xaa Ser Phe Cys Ser Ile Leu Leu Trp Val Phe Gly Gly
      130      135      140
Phe Leu Trp Phe His Met Asn Phe Met Ile Asp Phe Ser Ile Ser Val
      145      150      155      160
Lys Asn Val Ile Gly Ile Leu Val Gly Ile Ala Leu Asn Leu
      165      170      174

```

<210> 1850

<211> 5081

<212> PRT

<213> Homo sapiens

<400> 1850

```

Leu Pro Arg Gly Cys Leu Trp Cys Leu Gln Arg Ser Pro Thr Pro Ala
 1      5      10      15
Arg Pro Gln Pro Ser Arg Pro Ala Arg Ser Pro Leu Pro Leu Phe Pro
      20      25      30

```

Asp Leu Arg Pro Trp Ala Ser Asp Leu Asp Ile Met Gly Asp Ala Glu
 35 40 45
 Gly Glu Asp Glu Val Gln Phe Leu Arg Thr Asp Asp Glu Val Val Leu
 50 55 60
 Gln Cys Ser Ala Thr Val Leu Lys Glu Gln Leu Lys Leu Cys Leu Ala
 65 70 75 80
 Ala Glu Gly Phe Gly Asn Arg Leu Cys Phe Leu Glu Pro Thr Ser Asn
 85 90 95
 Ala Gln Asn Val Pro Pro Asp Leu Ala Ile Cys Cys Phe Val Leu Glu
 100 105 110
 Gln Ser Leu Ser Val Arg Ala Leu Gln Glu Met Leu Ala Asn Thr Val
 115 120 125
 Glu Ala Gly Val Glu Ser Ser Gln Gly Gly Gly His Arg Thr Leu Leu
 130 135 140
 Tyr Gly His Ala Ile Leu Leu Arg His Ala His Ser Arg Met Tyr Leu
 145 150 155 160
 Ser Cys Leu Thr Thr Ser Arg Ser Met Thr Asp Lys Leu Ala Phe Asp
 165 170 175
 Val Gly Leu Gln Glu Asp Ala Thr Gly Glu Ala Cys Trp Trp Thr Met
 180 185 190
 His Pro Ala Ser Lys Gln Arg Ser Glu Gly Glu Lys Val Arg Val Gly
 195 200 205
 Asp Asp Ile Ile Leu Val Ser Val Ser Ser Glu Arg Tyr Leu His Leu
 210 215 220
 Ser Thr Ala Ser Gly Glu Leu Gln Val Asp Ala Ser Phe Met Gln Thr
 225 230 235 240
 Leu Trp Asn Met Asn Pro Ile Cys Ser Arg Cys Glu Glu Gly Phe Val
 245 250 255
 Thr Gly Gly His Val Leu Arg Leu Phe His Gly His Met Asp Glu Cys
 260 265 270
 Leu Thr Ile Ser Pro Ala Asp Ser Asp Asp Gln Arg Arg Leu Val Tyr
 275 280 285
 Tyr Glu Gly Gly Ala Val Cys Thr His Ala Arg Ser Leu Trp Arg Leu
 290 295 300
 Glu Pro Leu Arg Ile Ser Trp Ser Gly Ser His Leu Arg Trp Gly Gln
 305 310 315 320
 Pro Leu Arg Val Arg His Val Thr Thr Gly Gln Tyr Leu Ala Leu Thr
 325 330 335
 Glu Asp Gln Gly Leu Val Val Val Asp Ala Ser Lys Ala His Thr Lys
 340 345 350
 Ala Thr Ser Phe Cys Phe Arg Ile Ser Lys Glu Lys Leu Asp Val Ala
 355 360 365
 Pro Lys Arg Asp Val Glu Gly Met Gly Pro Pro Glu Ile Lys Tyr Gly
 370 375 380
 Glu Ser Leu Cys Phe Val Gln His Val Ala Ser Gly Leu Trp Leu Thr
 385 390 395 400
 Tyr Ala Ala Pro Asp Pro Lys Ala Leu Arg Leu Gly Val Leu Lys Lys
 405 410 415
 Lys Ala Met Leu His Gln Glu Gly His Met Asp Asp Ala Leu Ser Leu
 420 425 430
 Thr Arg Cys Gln Gln Glu Glu Ser Gln Ala Ala Arg Met Ile His Ser
 435 440 445
 Thr Asn Gly Leu Tyr Asn Gln Phe Ile Lys Ser Leu Asp Ser Phe Ser
 450 455 460
 Gly Lys Pro Arg Gly Ser Gly Pro Pro Ala Gly Thr Ala Leu Pro Ile
 465 470 475 480
 Glu Gly Val Ile Leu Ser Leu Gln Asp Leu Ile Ile Tyr Phe Glu Pro
 485 490 495
 Pro Ser Glu Asp Leu Gln His Glu Glu Lys Gln Ser Lys Leu Arg Ser
 500 505 510
 Leu Arg Asn Arg Gln Ser Leu Phe Gln Glu Glu Gly Met Leu Ser Met
 515 520 525
 Val Leu Asn Cys Ile Asp Arg Leu Asn Val Tyr Thr Thr Ala Ala His
 530 535 540

Phe Ala Glu Phe Ala Gly Glu Glu Ala Ala Glu Ser Trp Lys Glu Ile
 545 550 555 560
 Val Asn Leu Leu Tyr Glu Leu Leu Ala Ser Leu Ile Arg Gly Asn Arg
 565 570 575
 Ser Asn Cys Ala Leu Phe Ser Thr Asn Leu Asp Trp Leu Val Ser Lys
 580 585 590
 Leu Asp Arg Leu Glu Ala Ser Ser Gly Ile Leu Glu Val Leu Tyr Cys
 595 600 605
 Val Leu Ile Glu Ser Pro Glu Val Leu Asn Ile Ile Gln Glu Asn His
 610 615 620
 Ile Lys Ser Ile Ile Ser Leu Leu Asp Lys His Gly Arg Asn His Lys
 625 630 635 640
 Val Leu Asp Val Leu Cys Ser Leu Cys Val Cys Asn Gly Val Ala Val
 645 650 655
 Arg Ser Asn Gln Asp Leu Ile Thr Glu Asn Leu Leu Pro Gly Arg Glu
 660 665 670
 Leu Leu Leu Gln Thr Asn Leu Ile Asn Tyr Val Thr Ser Ile Arg Pro
 675 680 685
 Asn Ile Phe Val Gly Arg Ala Glu Gly Thr Thr Gln Tyr Ser Lys Trp
 690 695 700
 Tyr Phe Glu Val Met Val Asp Glu Val Thr Pro Phe Leu Thr Ala Gln
 705 710 715 720
 Ala Thr His Leu Arg Val Gly Trp Ala Leu Thr Glu Gly Tyr Thr Pro
 725 730 735
 Tyr Pro Gly Ala Gly Glu Gly Trp Gly Gly Asn Gly Val Gly Asp Asp
 740 745 750
 Leu Tyr Ser Tyr Gly Phe Asp Gly Leu His Leu Trp Thr Gly His Val
 755 760 765
 Ala Arg Pro Val Thr Ser Pro Gly Gln His Leu Leu Ala Pro Glu Asp
 770 775 780
 Val Ile Ser Cys Cys Leu Asp Leu Ser Val Pro Ser Ile Ser Phe Arg
 785 790 795 800
 Ile Asn Gly Cys Pro Val Gln Gly Val Phe Glu Ser Phe Asn Leu Asp
 805 810 815
 Gly Leu Phe Phe Pro Val Val Ser Phe Ser Ala Gly Val Lys Val Arg
 820 825 830
 Phe Leu Leu Gly Gly Arg His Gly Glu Phe Lys Phe Leu Pro Pro Pro
 835 840 845
 Gly Tyr Ala Pro Cys His Glu Ala Val Leu Pro Arg Glu Arg Leu His
 850 855 860
 Leu Glu Pro Ile Lys Glu Tyr Arg Arg Glu Gly Pro Arg Gly Pro His
 865 870 875 880
 Leu Val Gly Pro Ser Arg Cys Leu Ser His Thr Asp Phe Val Pro Cys
 885 890 895
 Pro Val Asp Thr Val Gln Ile Val Leu Pro Pro His Leu Glu Arg Ile
 900 905 910
 Arg Glu Lys Leu Ala Glu Asn Ile His Glu Leu Trp Ala Leu Thr Arg
 915 920 925
 Ile Glu Gln Gly Trp Thr Tyr Gly Pro Val Arg Asp Asp Asn Lys Arg
 930 935 940
 Leu His Pro Cys Leu Val Asp Phe His Ser Leu Pro Glu Pro Glu Arg
 945 950 955 960
 Asn Tyr Asn Leu Gln Met Ser Gly Glu Thr Leu Lys Thr Leu Leu Ala
 965 970 975
 Leu Gly Cys His Val Gly Met Ala Asp Glu Lys Ala Glu Asp Asn Leu
 980 985 990
 Lys Lys Thr Lys Leu Pro Lys Thr Tyr Met Met Ser Asn Gly Tyr Lys
 995 1000 1005
 Pro Ala Pro Leu Asp Leu Ser His Val Arg Leu Thr Pro Ala Gln Thr
 1010 1015 1020
 Thr Leu Val Asp Arg Leu Ala Glu Asn Gly His Asn Val Trp Ala Arg
 1025 1030 1035 1040
 Asp Arg Val Gly Gln Gly Trp Ser Tyr Ser Ala Val Gln Asp Ile Pro
 1045 1050 1055

Ala Arg Arg Asn Pro Arg Leu Val Pro Tyr Arg Leu Leu Asp Glu Ala
 1060 1065 1070
 Thr Lys Arg Ser Asn Arg Asp Ser Leu Cys Gln Ala Val Arg Thr Leu
 1075 1080 1085
 Leu Gly Tyr Gly Tyr Asn Ile Glu Pro Pro Asp Gln Glu Pro Ser Gln
 1090 1095 1100
 Val Glu Asn Gln Ser Arg Cys Asp Arg Val Arg Ile Phe Arg Ala Glu
 1105 1110 1115 1120
 Lys Ser Tyr Thr Val Gln Ser Gly Arg Trp Tyr Phe Glu Phe Glu Ala
 1125 1130 1135
 Val Thr Thr Gly Glu Met Arg Val Gly Trp Ala Arg Pro Glu Leu Arg
 1140 1145 1150
 Pro Asp Val Glu Leu Gly Ala Asp Glu Leu Ala Tyr Val Phe Asn Gly
 1155 1160 1165
 His Arg Gly Gln Arg Trp His Leu Gly Ser Glu Pro Phe Gly Arg Pro
 1170 1175 1180
 Trp Gln Pro Gly Asp Val Val Gly Cys Met Ile Asp Leu Thr Glu Asn
 1185 1190 1195 1200
 Thr Ile Ile Phe Thr Leu Asn Gly Glu Val Leu Met Ser Asp Ser Gly
 1205 1210 1215
 Ser Glu Thr Ala Phe Arg Glu Ile Glu Ile Gly Asp Gly Phe Leu Pro
 1220 1225 1230
 Val Cys Ser Leu Gly Pro Gly Gln Val Gly His Leu Asn Leu Gly Gln
 1235 1240 1245
 Asp Val Ser Ser Leu Arg Phe Phe Ala Ile Cys Gly Leu Gln Glu Gly
 1250 1255 1260
 Phe Glu Pro Phe Ala Ile Asn Met Gln Arg Pro Val Thr Thr Trp Phe
 1265 1270 1275 1280
 Ser Lys Gly Leu Pro Gln Phe Glu Pro Val Pro Leu Glu His Pro His
 1285 1290 1295
 Tyr Glu Val Ser Arg Val Asp Gly Thr Val Asp Thr Pro Pro Cys Leu
 1300 1305 1310
 Arg Leu Thr His Arg Thr Trp Gly Ser Gln Asn Ser Leu Val Glu Met
 1315 1320 1325
 Leu Phe Leu Arg Leu Ser Leu Pro Val Gln Phe His Gln His Phe Arg
 1330 1335 1340
 Cys Thr Ala Gly Ala Thr Pro Leu Ala Pro Pro Gly Leu Gln Pro Pro
 1345 1350 1355 1360
 Ala Glu Asp Glu Ala Arg Ala Ala Glu Pro Asp Pro Asp Tyr Glu Asn
 1365 1370 1375
 Leu Arg Arg Ser Ala Gly Gly Trp Ser Glu Ala Glu Asn Gly Lys Glu
 1380 1385 1390
 Gly Thr Ala Lys Glu Gly Ala Pro Gly Gly Thr Pro Gln Ala Gly Gly
 1395 1400 1405
 Glu Ala Gln Pro Ala Arg Ala Glu Asn Glu Lys Asp Ala Thr Thr Glu
 1410 1415 1420
 Lys Asn Lys Lys Arg Gly Phe Leu Phe Lys Ala Lys Lys Val Ala Met
 1425 1430 1435 1440
 Met Thr Gln Pro Pro Ala Thr Pro Thr Leu Pro Arg Leu Pro His Asp
 1445 1450 1455
 Val Val Pro Ala Asp Asn Arg Asp Asp Pro Glu Ile Ile Leu Asn Thr
 1460 1465 1470
 Thr Thr Tyr Tyr Tyr Ser Val Arg Val Phe Ala Gly Gln Glu Pro Ser
 1475 1480 1485
 Cys Val Trp Ala Gly Trp Val Thr Pro Asp Tyr His Gln His Asp Met
 1490 1495 1500
 Ser Phe Asp Leu Ser Lys Val Arg Val Val Thr Val Thr Met Gly Asp
 1505 1510 1515 1520
 Glu Gln Gly Asn Val His Ser Ser Leu Lys Cys Ser Asn Cys Tyr Met
 1525 1530 1535
 Val Trp Gly Gly Asp Phe Val Ser Pro Gly Gln Gln Gly Arg Ile Ser
 1540 1545 1550
 His Thr Asp Leu Val Ile Gly Cys Leu Val Asp Leu Ala Thr Gly Leu
 1555 1560 1565

Met Thr Phe Thr Ala Asn Gly Lys Glu Ser Asn Thr Phe Phe Gln Val
 1570 1575 1580
 Glu Pro Asn Thr Lys Leu Phe Pro Ala Val Phe Val Leu Pro Thr His
 1585 1590 1595 1600
 Gln Asn Val Ile Gln Phe Glu Leu Gly Lys Gln Lys Asn Ile Met Pro
 1605 1610 1615
 Leu Ser Ala Ala Met Phe Gln Ser Glu Arg Lys Asn Pro Ala Pro Gln
 1620 1625 1630
 Cys Pro Pro Arg Leu Glu Met Gln Met Leu Met Pro Val Ser Trp Ser
 1635 1640 1645
 Arg Met Pro Asn His Phe Leu Gln Val Glu Thr Arg Arg Ala Gly Glu
 1650 1655 1660
 Arg Leu Gly Trp Ala Val Gln Cys Gln Glu Pro Leu Thr Met Met Ala
 1665 1670 1675 1680
 Leu His Ile Pro Glu Asn Arg Cys Met Asp Ile Leu Glu Leu Ser
 1685 1690 1695
 Glu Arg Leu Asp Leu Gln Arg Phe His Ser His Thr Leu Arg Leu Tyr
 1700 1705 1710
 Arg Ala Val Cys Ala Leu Gly Asn Asn Arg Val Ala His Ala Leu Cys
 1715 1720 1725
 Ser His Val Asp Gln Ala Gln Leu Leu His Ala Leu Glu Asp Ala His
 1730 1735 1740
 Leu Pro Gly Pro Leu Arg Ala Gly Tyr Tyr Asp Leu Leu Ile Ser Ile
 1745 1750 1755 1760
 His Leu Glu Ser Ala Cys Arg Ser Arg Arg Ser Met Leu Ser Glu Tyr
 1765 1770 1775
 Ile Val Pro Leu Thr Pro Glu Thr Arg Ala Ile Thr Leu Phe Pro Pro
 1780 1785 1790
 Gly Arg Ser Thr Glu Asn Gly His Pro Arg His Gly Leu Pro Gly Val
 1795 1800 1805
 Gly Val Thr Thr Ser Leu Arg Pro Pro His His Phe Ser Pro Pro Cys
 1810 1815 1820
 Phe Val Ala Ala Leu Pro Ala Ala Gly Ala Ala Glu Ala Pro Ala Arg
 1825 1830 1835 1840
 Leu Ser Pro Ala Ile Pro Leu Glu Ala Leu Arg Asp Lys Ala Leu Arg
 1845 1850 1855
 Met Leu Gly Glu Ala Val Arg Asp Gly Gly Gln His Ala Arg Asp Pro
 1860 1865 1870
 Val Gly Ala Ser Val Glu Phe Gln Phe Val Pro Val Leu Lys Leu Val
 1875 1880 1885
 Ser Thr Leu Leu Val Met Gly Ile Phe Gly Asp Glu Asp Val Lys Gln
 1890 1895 1900
 Ile Leu Lys Met Ile Glu Pro Glu Val Phe Thr Glu Glu Glu Glu Glu
 1905 1910 1915 1920
 Glu Asp Glu Glu Glu Gly Glu Glu Glu Asp Glu Glu Glu Lys Glu
 1925 1930 1935
 Glu Asp Glu Glu Glu Thr Ala Gln Glu Lys Glu Asp Glu Glu Lys Glu
 1940 1945 1950
 Glu Glu Glu Ala Ala Glu Gly Glu Lys Glu Glu Gly Leu Glu Glu Gly
 1955 1960 1965
 Leu Leu Gln Met Lys Leu Pro Glu Ser Val Lys Leu Gln Met Cys His
 1970 1975 1980
 Leu Leu Glu Tyr Phe Cys Asp Gln Glu Leu Gln His Arg Val Glu Ser
 1985 1990 1995 2000
 Leu Ala Ala Phe Ala Glu Arg Tyr Val Asp Lys Leu Gln Ala Asn Gln
 2005 2010 2015
 Arg Ser Arg Tyr Gly Leu Leu Ile Lys Ala Phe Ser Met Thr Ala Ala
 2020 2025 2030
 Glu Thr Ala Arg Arg Thr Arg Glu Phe Arg Ser Pro Pro Gln Glu Gln
 2035 2040 2045
 Ile Asn Met Leu Leu Gln Phe Lys Asp Gly Thr Asp Glu Glu Asp Cys
 2050 2055 2060
 Pro Leu Pro Glu Glu Ile Arg Gln Asp Leu Leu Asp Phe His Gln Asp
 2065 2070 2075 2080

Leu Leu Ala His Cys Gly Ile Gln Leu Asp Gly Glu Glu Glu Glu Pro
 2085 2090 2095
 Glu Glu Glu Thr Thr Leu Gly Ser Arg Leu Met Ser Leu Leu Glu Lys
 2100 2105 2110
 Val Arg Leu Val Lys Lys Lys Glu Glu Lys Pro Glu Glu Glu Arg Ser
 2115 2120 2125
 Ala Glu Glu Ser Lys Pro Arg Ser Leu Gln Glu Leu Val Ser His Met
 2130 2135 2140
 Val Val Arg Trp Ala Gln Glu Asp Phe Val Gln Ser Pro Glu Leu Val
 2145 2150 2155 2160
 Arg Ala Met Phe Ser Leu Leu His Arg Gln Tyr Asp Gly Leu Gly Glu
 2165 2170 2175
 Leu Leu Arg Ala Leu Pro Arg Ala Tyr Thr Ile Ser Pro Ser Ser Val
 2180 2185 2190
 Glu Asp Thr Met Ser Leu Leu Glu Cys Leu Gly Gln Ile Arg Ser Leu
 2195 2200 2205
 Leu Ile Val Gln Met Gly Pro Gln Glu Glu Asn Leu Met Ile Gln Ser
 2210 2215 2220
 Ile Gly Asn Ile Met Asn Asn Lys Val Phe Tyr Gln His Pro Asn Leu
 2225 2230 2235 2240
 Met Arg Ala Leu Gly Met His Glu Thr Val Met Glu Val Met Val Asn
 2245 2250 2255
 Val Leu Gly Gly Glu Ser Lys Glu Ile Arg Phe Pro Lys Met Val
 2260 2265 2270
 Thr Ser Cys Cys Arg Phe Leu Cys Tyr Phe Cys Arg Ile Ser Arg Gln
 2275 2280 2285
 Asn Gln Arg Ser Met Phe Asp His Leu Ser Tyr Leu Leu Glu Asn Ser
 2290 2295 2300
 Gly Ile Gly Leu Gly Met Gln Gly Ser Thr Pro Leu Asp Val Ala Ala
 2305 2310 2315 2320
 Ala Ser Val Ile Asp Asn Asn Glu Leu Ala Leu Ala Leu Gln Glu Gln
 2325 2330 2335
 Asp Leu Glu Lys Val Val Ser Tyr Leu Ala Gly Cys Gly Leu Gln Ser
 2340 2345 2350
 Cys Pro Met Leu Val Ala Lys Gly Tyr Pro Asp Ile Gly Trp Lys Pro
 2355 2360 2365
 Cys Gly Glu Glu Arg Tyr Leu Asp Phe Leu Arg Phe Ala Val Phe Val
 2370 2375 2380
 Asn Gly Glu Ser Val Glu Glu Asn Ala Asn Val Val Val Arg Leu Leu
 2385 2390 2395 2400
 Ile Arg Lys Pro Glu Cys Phe Gly Pro Ala Leu Arg Gly Glu Gly Gly
 2405 2410 2415
 Ser Gly Leu Leu Ala Ala Ile Glu Glu Ala Ile Arg Ile Ser Glu Asp
 2420 2425 2430
 Pro Ala Arg Asp Gly Pro Gly Ile Arg Arg Asp Arg Arg Arg Glu His
 2435 2440 2445
 Phe Gly Glu Glu Pro Pro Glu Glu Asn Arg Val His Leu Gly His Ala
 2450 2455 2460
 Ile Met Ser Phe Tyr Ala Ala Leu Ile Asp Leu Leu Gly Arg Cys Ala
 2465 2470 2475 2480
 Pro Glu Met His Leu Ile Gln Ala Gly Lys Gly Glu Ala Leu Arg Ile
 2485 2490 2495
 Arg Ala Ile Leu Arg Ser Leu Val Pro Leu Glu Asp Leu Val Gly Ile
 2500 2505 2510
 Ile Ser Leu Pro Leu Gln Ile Pro Thr Leu Gly Lys Asp Gly Ala Leu
 2515 2520 2525
 Val Gln Pro Lys Met Ser Ala Ser Phe Val Pro Asp His Lys Ala Ser
 2530 2535 2540
 Met Val Leu Phe Leu Asp Arg Val Tyr Gly Ile Glu Asn Gln Asp Phe
 2545 2550 2555 2560
 Leu Leu His Val Leu Asp Val Gly Phe Leu Pro Asp Met Arg Ala Ala
 2565 2570 2575
 Ala Ser Leu Asp Thr Ala Thr Phe Ser Thr Thr Glu Met Ala Leu Ala
 2580 2585 2590

Val Asn Arg Tyr Leu Cys Leu Ala Val Leu Pro Leu Ile Thr Lys Cys
 2595 2600 2605
 Ala Pro Leu Phe Ala Gly Thr Glu His Arg Ala Ile Met Val Asp Ser
 2610 2615 2620
 Met Leu His Thr Val Tyr Arg Leu Ser Arg Gly Arg Ser Leu Thr Lys
 2625 2630 2635 2640
 Ala Gln Arg Asp Val Ile Glu Asp Cys Leu Met Ser Leu Cys Arg Tyr
 2645 2650 2655
 Ile Arg Pro Ser Met Leu Gln His Leu Leu Arg Arg Leu Val Phe Asp
 2660 2665 2670
 Val Pro Ile Leu Asn Glu Phe Ala Lys Met Pro Leu Lys Leu Leu Thr
 2675 2680 2685
 Asn His Tyr Glu Arg Cys Trp Lys Tyr Tyr Cys Leu Pro Thr Gly Trp
 2690 2695 2700
 Ala Asn Phe Gly Val Thr Ser Glu Glu Glu Leu His Leu Thr Arg Lys
 2705 2710 2715 2720
 Leu Phe Trp Gly Ile Phe Asp Ser Leu Ala His Lys Lys Tyr Asp Pro
 2725 2730 2735
 Glu Leu Tyr Arg Met Ala Met Pro Cys Leu Cys Ala Ile Ala Gly Ala
 2740 2745 2750
 Leu Pro Pro Asp Tyr Val Asp Ala Ser Tyr Ser Ser Lys Ala Glu Lys
 2755 2760 2765
 Lys Ala Thr Val Asp Ala Glu Gly Asn Phe Asp Pro Arg Pro Val Glu
 2770 2775 2780
 Thr Leu Asn Val Ile Ile Pro Glu Lys Leu Asp Ser Phe Ile Asn Lys
 2785 2790 2795 2800
 Phe Ala Glu Tyr Thr His Glu Lys Trp Ala Phe Asp Lys Ile Gln Asn
 2805 2810 2815
 Asn Trp Ser Tyr Gly Glu Asn Ile Asp Glu Glu Leu Lys Thr His Pro
 2820 2825 2830
 Met Leu Arg Pro Tyr Lys Thr Phe Ser Glu Lys Asp Lys Glu Ile Tyr
 2835 2840 2845
 Arg Trp Pro Ile Lys Glu Ser Leu Lys Ala Met Ile Ala Trp Glu Trp
 2850 2855 2860
 Thr Ile Glu Lys Ala Arg Glu Gly Glu Glu Lys Thr Glu Lys Lys
 2865 2870 2875 2880
 Lys Thr Ala Lys Ile Ser Gln Ser Ala Gln Thr Tyr Asp Pro Arg Glu
 2885 2890 2895
 Gly Tyr Asn Pro Gln Pro Pro Asp Leu Ser Ala Val Thr Leu Ser Arg
 2900 2905 2910
 Glu Leu Gln Ala Met Ala Glu Gln Leu Ala Glu Asn Tyr His Asn Thr
 2915 2920 2925
 Trp Gly Arg Lys Lys Lys Gln Glu Leu Glu Ala Lys Gly Gly Gly Thr
 2930 2935 2940
 His Pro Leu Leu Val Pro Tyr Asp Thr Leu Thr Ala Lys Glu Lys Ala
 2945 2950 2955 2960
 Arg Asp Arg Glu Lys Ala Gln Glu Leu Leu Lys Phe Leu Gln Met Asn
 2965 2970 2975
 Gly Tyr Ala Val Thr Arg Gly Leu Lys Asp Met Glu Leu Asp Ser Ser
 2980 2985 2990
 Ser Ile Glu Lys Arg Phe Ala Phe Gly Phe Leu Gln Gln Leu Leu Arg
 2995 3000 3005
 Trp Met Asp Ile Ser Gln Glu Phe Ile Ala His Leu Glu Ala Val Val
 3010 3015 3020
 Ser Ser Gly Arg Val Glu Lys Ser Pro His Glu Gln Glu Ile Lys Phe
 3025 3030 3035 3040
 Phe Ala Lys Ile Leu Leu Pro Leu Ile Asn Gln Tyr Phe Thr Asn His
 3045 3050 3055
 Cys Leu Tyr Phe Leu Ser Thr Pro Ala Lys Val Leu Gly Ser Gly Gly
 3060 3065 3070
 His Ala Ser Asn Lys Glu Lys Glu Met Ile Thr Ser Leu Phe Cys Lys
 3075 3080 3085
 Leu Ala Ala Leu Val Arg His Arg Val Ser Leu Phe Gly Thr Asp Ala
 3090 3095 3100

Pro Ala Val Val Asn Cys Leu His Ile Leu Ala Arg Ser Leu Asp Ala
 3105 3110 3115 3120
 Arg Thr Val Met Lys Ser Gly Pro Glu Ile Val Lys Ala Gly Leu Arg
 3125 3130 3135
 Ser Phe Phe Glu Ser Ala Ser Glu Asp Ile Glu Lys Met Val Glu Asn
 3140 3145 3150
 Leu Arg Leu Gly Lys Val Ser Gln Ala Arg Thr Gln Val Lys Gly Val
 3155 3160 3165
 Gly Gln Asn Leu Thr Tyr Thr Thr Val Ala Leu Leu Pro Val Leu Thr
 3170 3175 3180
 Thr Leu Phe Gln His Ile Ala Gln His Gln Phe Gly Asp Asp Val Ile
 3185 3190 3195 3200
 Leu Asp Asp Val Gln Val Ser Cys Tyr Arg Thr Leu Cys Ser Ile Tyr
 3205 3210 3215
 Ser Leu Gly Thr Thr Lys Asn Thr Tyr Val Glu Lys Leu Arg Pro Ala
 3220 3225 3230
 Leu Gly Glu Cys Leu Ala Arg Leu Ala Ala Ala Met Pro Val Ala Phe
 3235 3240 3245
 Leu Glu Pro Gln Leu Asn Glu Tyr Asn Ala Cys Ser Val Tyr Thr Thr
 3250 3255 3260
 Lys Ser Pro Arg Glu Arg Ala Ile Leu Gly Leu Pro Asn Ser Val Glu
 3265 3270 3275 3280
 Glu Met Cys Pro Asp Ile Pro Val Leu Glu Arg Leu Met Ala Asp Ile
 3285 3290 3295
 Gly Gly Leu Ala Glu Ser Gly Ala Arg Tyr Thr Glu Met Pro His Val
 3300 3305 3310
 Ile Glu Ile Thr Leu Pro Met Leu Cys Ser Tyr Leu Pro Arg Trp Trp
 3315 3320 3325
 Glu Arg Gly Pro Glu Ala Pro Pro Ser Ala Leu Pro Ala Gly Ala Pro
 3330 3335 3340
 Pro Pro Cys Thr Ala Val Thr Ser Asp His Leu Asn Ser Leu Leu Gly
 3345 3350 3355 3360
 Asn Ile Leu Arg Ile Ile Val Asn Asn Leu Gly Ile Asp Glu Ala Ser
 3365 3370 3375
 Trp Met Lys Arg Leu Ala Val Phe Ala Gln Pro Ile Val Ser Arg Ala
 3380 3385 3390
 Arg Pro Glu Leu Leu Gln Ser His Phe Ile Pro Thr Ile Gly Arg Leu
 3395 3400 3405
 Arg Lys Arg Ala Gly Lys Val Val Ser Glu Glu Glu Gln Leu Ala Leu
 3410 3415 3420
 Glu Ala Lys Ala Glu Ala Gln Glu Gly Glu Leu Leu Val Arg Asp Glu
 3425 3430 3435 3440
 Phe Ser Val Leu Cys Arg Asp Leu Tyr Ala Leu Tyr Pro Leu Leu Ile
 3445 3450 3455
 Arg Tyr Val Asp Asn Asn Arg Ala Gln Trp Leu Thr Glu Pro Asn Pro
 3460 3465 3470
 Ser Ala Glu Glu Leu Phe Arg Met Val Gly Glu Ile Phe Ile Tyr Trp
 3475 3480 3485
 Ser Lys Ser His Asn Phe Lys Arg Glu Glu Gln Asn Phe Val Val Gln
 3490 3495 3500
 Asn Glu Ile Asn Asn Met Ser Phe Leu Thr Ala Asp Asn Lys Ser Lys
 3505 3510 3515 3520
 Met Ala Lys Ala Gly Asp Ile Gln Ser Gly Gly Ser Asp Gln Glu Arg
 3525 3530 3535
 Thr Lys Lys Lys Arg Arg Gly Asp Arg Tyr Ser Val Gln Thr Ser Leu
 3540 3545 3550
 Ile Val Ala Thr Leu Lys Lys Met Leu Pro Ile Gly Leu Asn Met Cys
 3555 3560 3565
 Ala Pro Thr Asp Gln Asp Leu Ile Thr Leu Ala Lys Thr Arg Tyr Ala
 3570 3575 3580
 Leu Lys Asp Thr Asp Glu Glu Val Arg Glu Phe Leu His Asn Asn Leu
 3585 3590 3595 3600
 His Leu Gln Gly Lys Val Glu Gly Ser Pro Ser Leu Arg Trp Gln Met
 3605 3610 3615

Ala Leu Tyr Arg Gly Val Pro Gly Arg Glu Glu Asp Ala Asp Asp Pro
 3620 3625 3630
 Glu Lys Ile Val Arg Arg Val Gln Glu Val Ser Ala Val Leu Tyr Tyr
 3635 3640 3645
 Leu Asp Gln Thr Glu His Pro Tyr Lys Ser Lys Lys Ala Val Trp His
 3650 3655 3660
 Lys Leu Leu Ser Lys Gln Arg Arg Arg Ala Val Val Ala Cys Phe Arg
 3665 3670 3675 3680
 Met Thr Pro Leu Tyr Asn Leu Pro Thr His Arg Ala Cys Asn Met Phe
 3685 3690 3695
 Leu Glu Ser Tyr Lys Ala Ala Trp Ile Leu Thr Glu Asp His Ser Phe
 3700 3705 3710
 Glu Asp Arg Met Ile Asp Asp Leu Ser Lys Ala Gly Glu Gln Glu Glu
 3715 3720 3725
 Glu Glu Glu Glu Val Glu Glu Lys Lys Pro Asp Pro Leu His Gln Leu
 3730 3735 3740
 Val Leu His Phe Ser Arg Thr Ala Leu Thr Glu Lys Ser Lys Leu Asp
 3745 3750 3755 3760
 Glu Asp Tyr Leu Tyr Met Ala Tyr Ala Asp Ile Met Ala Lys Ser Cys
 3765 3770 3775
 His Leu Glu Glu Gly Gly Glu Asn Gly Glu Ala Glu Glu Glu Val Glu
 3780 3785 3790
 Val Ser Phe Glu Glu Lys Gln Met Glu Lys Gln Arg Leu Leu Tyr Gln
 3795 3800 3805
 Gln Ala Arg Leu His Thr Arg Gly Ala Ala Glu Met Val Leu Gln Met
 3810 3815 3820
 Ile Ser Ala Cys Lys Gly Glu Thr Gly Ala Met Val Ser Ser Thr Leu
 3825 3830 3835 3840
 Lys Leu Gly Ile Ser Ile Leu Asn Gly Gly Asn Ala Glu Val Gln Gln
 3845 3850 3855
 Lys Met Leu Asp Tyr Leu Lys Asp Lys Lys Glu Val Gly Phe Phe Gln
 3860 3865 3870
 Ser Ile Gln Ala Leu Met Gln Thr Cys Ser Val Leu Asp Leu Asn Ala
 3875 3880 3885
 Phe Glu Arg Gln Asn Lys Ala Glu Gly Leu Gly Met Val Asn Glu Asp
 3890 3895 3900
 Gly Thr Val Ile Asn Arg Gln Asn Gly Glu Lys Val Met Ala Asp Asp
 3905 3910 3915 3920
 Glu Phe Thr Gln Asp Leu Phe Arg Phe Leu Gln Leu Leu Cys Glu Gly
 3925 3930 3935
 His Asn Asn Asp Phe Gln Asn Tyr Leu Arg Thr Gln Thr Gly Asn Thr
 3940 3945 3950
 Thr Thr Ile Asn Ile Ile Ile Cys Thr Val Asp Tyr Leu Leu Arg Leu
 3955 3960 3965
 Gln Glu Ser Ile Ser Asp Phe Tyr Trp Tyr Tyr Ser Gly Lys Asp Val
 3970 3975 3980
 Ile Glu Glu Gln Gly Lys Arg Asn Phe Ser Lys Ala Met Ser Val Ala
 3985 3990 3995 4000
 Lys Gln Val Phe Asn Ser Leu Thr Glu Tyr Ile Gln Gly Pro Cys Thr
 4005 4010 4015
 Gly Asn Gln Gln Ser Leu Ala His Ser Arg Leu Trp Asp Ala Val Val
 4020 4025 4030
 Gly Phe Leu His Val Phe Ala His Met Met Met Lys Leu Ala Gln Asp
 4035 4040 4045
 Ser Ser Gln Ile Glu Leu Leu Lys Glu Leu Leu Asp Leu Gln Lys Asp
 4050 4055 4060
 Met Val Val Met Leu Leu Ser Leu Leu Glu Gly Asn Val Val Asn Gly
 4065 4070 4075 4080
 Met Ile Ala Arg Gln Met Val Asp Met Leu Val Glu Ser Ser Ser Asn
 4085 4090 4095
 Val Glu Met Ile Leu Lys Phe Phe Asp Met Phe Leu Lys Leu Lys Asp
 4100 4105 4110
 Ile Val Gly Ser Glu Ala Phe Gln Asp Tyr Val Thr Asp Pro Arg Gly
 4115 4120 4125

Leu Ile Ser Lys Lys Asp Phe Gln Lys Ala Met Asp Ser Gln Lys Gln
 4130 4135 4140
 Phe Ser Gly Pro Glu Ile Gln Phe Leu Leu Ser Cys Ser Glu Ala Asp
 4145 4150 4155 4160
 Glu Asn Glu Met Ile Asn Cys Glu Glu Phe Ala Asn Arg Phe Gln Glu
 4165 4170 4175
 Pro Ala Arg Asp Ile Gly Phe Asn Val Ala Val Leu Leu Thr Asn Leu
 4180 4185 4190
 Ser Glu His Val Pro His Asp Pro Arg Leu His Asn Phe Leu Glu Leu
 4195 4200 4205
 Ala Glu Ser Ile Leu Glu Tyr Phe Arg Pro Tyr Leu Gly Arg Ile Glu
 4210 4215 4220
 Ile Met Gly Ala Ser Arg Arg Ile Glu Arg Ile Tyr Phe Glu Ile Ser
 4225 4230 4235 4240
 Glu Thr Asn Arg Ala Gln Trp Glu Met Pro Gln Val Lys Glu Ser Lys
 4245 4250 4255
 Arg Gln Phe Ile Phe Asp Val Val Asn Glu Gly Gly Glu Ala Glu Lys
 4260 4265 4270
 Met Glu Leu Phe Val Ser Phe Cys Glu Asp Thr Ile Phe Glu Met Gln
 4275 4280 4285
 Ile Ala Ala Gln Ile Ser Glu Pro Glu Gly Glu Pro Glu Thr Asp Glu
 4290 4295 4300
 Asp Glu Gly Ala Gly Ala Ala Glu Ala Gly Ala Glu Gly Ala Glu Glu
 4305 4310 4315 4320
 Gly Ala Ala Gly Leu Glu Gly Thr Ala Ala Thr Ala Ala Ala Gly Ala
 4325 4330 4335
 Thr Ala Arg Val Val Ala Ala Ala Gly Arg Ala Leu Arg Gly Leu Ser
 4340 4345 4350
 Tyr Arg Ser Leu Arg Arg Arg Val Arg Arg Leu Arg Arg Leu Thr Ala
 4355 4360 4365
 Arg Glu Ala Ala Thr Ala Val Ala Ala Leu Leu Trp Ala Ala Val Thr
 4370 4375 4380
 Arg Ala Gly Ala Ala Gly Ala Gly Ala Ala Gly Ala Leu Gly Leu
 4385 4390 4395 4400
 Leu Trp Gly Ser Leu Phe Gly Gly Gly Leu Val Glu Gly Ala Lys Lys
 4405 4410 4415
 Val Thr Val Thr Glu Leu Leu Ala Gly Met Pro Asp Pro Thr Ser Asp
 4420 4425 4430
 Glu Val His Gly Glu Gln Pro Ala Gly Pro Gly Gly Asp Ala Asp Gly
 4435 4440 4445
 Glu Gly Ala Ser Glu Gly Ala Gly Asp Ala Ala Glu Gly Ala Gly Asp
 4450 4455 4460
 Glu Glu Glu Ala Val His Glu Ala Gly Pro Gly Gly Ala Asp Gly Ala
 4465 4470 4475 4480
 Val Ala Val Thr Asp Gly Gly Pro Phe Arg Pro Glu Gly Ala Gly Gly
 4485 4490 4495
 Leu Gly Asp Met Gly Asp Thr Thr Pro Ala Glu Pro Pro Thr Pro Glu
 4500 4505 4510
 Gly Ser Pro Ile Leu Lys Arg Lys Leu Gly Val Asp Gly Val Glu Glu
 4515 4520 4525
 Glu Leu Pro Pro Glu Pro Glu Pro Glu Pro Glu Leu Glu Pro
 4530 4535 4540
 Glu Lys Ala Asp Ala Glu Asn Gly Glu Lys Glu Glu Val Pro Glu Pro
 4545 4550 4555 4560
 Thr Pro Glu Pro Pro Lys Lys Gln Ala Pro Pro Ser Pro Pro Pro Lys
 4565 4570 4575
 Lys Glu Glu Ala Gly Gly Glu Phe Trp Gly Glu Leu Glu Val Gln Arg
 4580 4585 4590
 Val Lys Phe Leu Asn Tyr Leu Ser Arg Asn Phe Tyr Thr Leu Arg Phe
 4595 4600 4605
 Leu Ala Leu Phe Leu Ala Phe Ala Ile Asn Phe Ile Leu Leu Phe Tyr
 4610 4615 4620
 Lys Val Ser Asp Ser Pro Pro Gly Glu Asp Asp Met Glu Gly Ser Ala
 4625 4630 4635 4640

Ala Gly Asp Val Ser Gly Ala Gly Ser Gly Gly Ser Ser Gly Trp Gly
 4645 4650 4655
 Leu Gly Ala Gly Glu Glu Ala Glu Gly Asp Glu Asp Glu Asn Met Val
 4660 4665 4670
 Tyr Tyr Phe Leu Glu Glu Ser Thr Gly Tyr Met Glu Pro Ala Leu Arg
 4675 4680 4685
 Cys Leu Ser Leu Leu His Thr Leu Val Ala Phe Leu Cys Ile Ile Gly
 4690 4695 4700
 Tyr Asn Cys Leu Lys Val Pro Leu Val Ile Phe Lys Arg Glu Lys Glu
 4705 4710 4715 4720
 Leu Ala Arg Lys Leu Glu Phe Asp Gly Leu Tyr Ile Thr Glu Gln Pro
 4725 4730 4735
 Glu Asp Asp Asp Val Lys Gly Gln Trp Asp Arg Leu Val Leu Asn Thr
 4740 4745 4750
 Pro Ser Phe Pro Ser Asn Tyr Trp Asp Lys Phe Val Lys Arg Lys Val
 4755 4760 4765
 Leu Asp Lys His Gly Asp Ile Tyr Gly Arg Glu Arg Ile Ala Glu Leu
 4770 4775 4780
 Leu Gly Met Asp Leu Ala Thr Leu Glu Ile Thr Ala His Asn Glu Arg
 4785 4790 4795 4800
 Lys Pro Asn Pro Pro Gly Leu Leu Thr Trp Leu Met Ser Ile Asp
 4805 4810 4815
 Val Lys Tyr Gln Ile Trp Lys Phe Gly Val Ile Phe Thr Asp Asn Ser
 4820 4825 4830
 Phe Leu Tyr Leu Gly Trp Tyr Met Val Met Ser Leu Leu Gly His Tyr
 4835 4840 4845
 Asn Asn Phe Phe Phe Ala Ala His Leu Leu Asp Ile Ala Met Gly Val
 4850 4855 4860
 Lys Thr Leu Arg Thr Ile Leu Ser Ser Val Thr His Asn Gly Lys Gln
 4865 4870 4875 4880
 Leu Val Met Thr Val Gly Leu Leu Ala Val Val Val Tyr Leu Tyr Thr
 4885 4890 4895
 Val Val Ala Phe Asn Phe Phe Arg Lys Phe Tyr Asn Lys Ser Glu Asp
 4900 4905 4910
 Glu Asp Glu Pro Asp Met Lys Cys Asp Asp Met Met Thr Cys Tyr Leu
 4915 4920 4925
 Phe His Met Tyr Val Gly Val Arg Ala Gly Gly Gly Ile Gly Asp Glu
 4930 4935 4940
 Ile Glu Asp Pro Ala Gly Asp Glu Tyr Glu Leu Tyr Arg Val Val Phe
 4945 4950 4955 4960
 Asp Ile Thr Phe Phe Phe Val Ile Val Ile Leu Leu Ala Ile Ile
 4965 4970 4975
 Gln Gly Leu Ile Ile Asp Ala Phe Gly Glu Leu Arg Asp Gln Gln Glu
 4980 4985 4990
 Gln Val Lys Glu Asp Met Glu Thr Lys Cys Phe Ile Cys Gly Ile Gly
 4995 5000 5005
 Ser Asp Tyr Phe Asp Thr Thr Pro His Gly Phe Glu Thr His Thr Leu
 5010 5015 5020
 Glu Glu His Asn Leu Ala Asn Tyr Met Phe Phe Leu Met Tyr Leu Ile
 5025 5030 5035 5040
 Asn Lys Asp Glu Thr Glu His Thr Gly Gln Glu Ser Tyr Val Trp Lys
 5045 5050 5055
 Met Tyr Gln Glu Arg Cys Trp Asp Phe Phe Pro Ala Gly Asp Cys Phe
 5060 5065 5070
 Arg Lys Gln Tyr Glu Asp Gln Leu Ser
 5075 50805081

<210> 1851

<211> 67

<212> PRT

<213> Homo sapiens

<221> misc_feature
 <222> (1)...(66)
 <223> Xaa = any amino acid or nothing

<400> 1851
 Val Ile Val Ala Ile Tyr Cys Gln Leu Ile Phe Asp Lys Gly Ala Lys
 1 5 10 15
 Thr Ile Gln Xaa Pro Phe Gln Gln Ile Ala Leu Cys Lys Arg Met Lys
 20 25 30
 Leu Gly Pro Cys Phe Thr Pro Cys Gly Lys Ile Asn Ser Glu Trp Ile
 35 40 45
 Arg Glu Leu Ser Val Arg Val Lys Thr Ile Lys His Leu Glu Ile Gly
 50 55 60
 Val Asn
 65 66

<210> 1852
 <211> 107
 <212> PRT
 <213> Homo sapiens

<221> misc_feature
 <222> (1)...(105)
 <223> Xaa = any amino acid or nothing

<400> 1852
 Ser Gly Met Gln Trp Arg Asp Leu Thr Pro Leu Gln Pro Leu Pro Pro
 1 5 10 15
 Arg Phe Lys Gln Phe Ser Cys Leu Ser Leu Pro Gly Ser Trp Asp Tyr
 20 25 30
 Arg His Ala Pro Pro Leu Leu Thr Asn Phe Xaa Phe Leu Val Glu Met
 35 40 45
 Gly Phe Cys Tyr Val Gly Gln Ala Gly Arg Lys Leu Leu Ala Ser Ser
 50 55 60
 Asp Gln Ser Ala Leu Ala Ser Gln Ser Ala Gly Ile Thr Gly Ile Ser
 65 70 75 80
 Thr Ala Pro Gly Pro Pro Phe Phe Phe Leu Asn Phe Glu Ala Gly Ser
 85 90 95
 Cys Ser Val Ala Gln Ala Gly Val Gln
 100 105

<210> 1853
 <211> 196
 <212> PRT
 <213> Homo sapiens

<221> misc_feature
 <222> (1)...(194)
 <223> Xaa = any amino acid or nothing

<400> 1853
 Glu Val Asp Ser Gln Ser Gly Val Gln Xaa Gln Ala Pro Gly Ser Leu
 1 5 10 15
 Gln Leu Gln Thr Pro Gly Leu Lys Val Ser Cys Leu Leu Ser Arg Gln
 20 25 30
 Asp Tyr Arg Ser Ser Leu Pro His Leu Ala Ser Cys Cys Tyr Tyr Tyr
 35 40 45

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Tyr Tyr Tyr Val Phe Leu Xaa Arg Arg Gly Leu Thr Thr Leu Val Gln
  50          55          60
Gly Gly Leu Lys Leu Leu Pro Ser Ser Asn Pro Phe Ala Ser Ala Pro
  65          70          75          80
Xaa Thr Ala Gly Ile Thr Gly Met Ser His Cys Ala Gly Pro His Phe
          85          90          95
Asn Phe Xaa Met Phe Arg Lys Ile Ser Cys Ile Arg Glu Xaa Phe Xaa
          100          105          110
His Thr Arg Ile Tyr Asp Ile Pro Phe Leu Ile Leu Phe Phe Lys Glu
          115          120          125
Thr Trp Val Leu Leu Cys Tyr Pro Gly Trp Pro Gln Ile Pro Gly Leu
          130          135          140
Lys Pro Ser Ser Cys Leu Arg Leu Leu Ser Ser Trp Asp His Arg Cys
          145          150          155          160
Ala Pro Pro Cys Pro Ala Ser Phe Phe Ile Phe His Val Asp Arg Val
          165          170          175
Ser Pro Pro Cys Pro Gly Leu Val Ser Ile Thr Phe Lys Met Leu Leu
          180          185          190
Leu Leu
          194

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<210> 1854
 <211> 71
 <212> PRT
 <213> Homo sapiens

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<400> 1854
Met Val Ser Lys Ser Lys Ser Ile Leu Met Ser Tyr Asn His Val Glu
  1          5          10          15
Leu Thr Phe Ser Asp Met Lys Lys Met Pro Glu Ala Phe Arg Arg Thr
          20          25          30
Gln Lys His Thr Ile Tyr Leu Ile Pro Tyr Gln Val Ile Phe Trp Ser
          35          40          45
Thr Gly Lys Asp Ala Met Arg Ser Phe Met Met Pro Phe Tyr Gln Lys
          50          55          60
Glu Tyr Tyr Glu Asn Gln *
          65          70

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<210> 1855
 <211> 466
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(464)
 <223> Xaa = any amino acid or nothing

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<400> 1855
Glu Pro Gly Val Pro Thr Lys Lys Thr Trp Phe Asp Lys Pro Asp Phe
  1          5          10          15
Asn Arg Thr Asn Ser Pro Gly Phe Gln Lys Lys Val Gln Phe Gly Asn
          20          25          30
Glu Asn Thr Lys Leu Glu Leu Arg Lys Val Pro Pro Glu Leu Asn Asn
          35          40          45
Ile Ser Lys Leu Asn Glu His Phe Ser Arg Phe Gly Thr Leu Val Asn
          50          55          60
Leu Gln Val Ala Tyr Asn Gly Asp Pro Glu Gly Ala Leu Ile Gln Phe
          65          70          75          80

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Ala Thr Tyr Glu Glu Ala Lys Lys Ala Ile Ser Ser Thr Glu Ala Val
      85      90      95
Leu Asn Asn Arg Phe Ile Lys Val Tyr Trp His Arg Glu Gly Ser Thr
      100      105      110
Gln Gln Leu Gln Thr Thr Ser Pro Lys Val Met Gln Pro Leu Val Gln
      115      120      125
Gln Pro Ile Leu Pro Val Val Lys Gln Ser Val Lys Glu Arg Leu Gly
      130      135      140
Pro Val Pro Ser Ser Thr Ile Glu Pro Ala Glu Ala Gln Ser Ala Ser
      145      150      155      160
Ser Asp Leu Pro Gln Val Leu Ser Thr Leu Leu Ala Xaa Gln Lys Gln
      165      170      175
Cys Ile Ile Gln Leu Leu Trp Lys Ala Ala Gln Lys Thr Leu Leu Val
      180      185      190
Ser Thr Ser Ala Val Asp Asn Asn Glu Ala Gln Lys Lys Lys Gln Glu
      195      200      205
Ala Leu Lys Leu Gln Gln Asp Val Arg Lys Arg Lys Gln Glu Ile Leu
      210      215      220
Glu Lys His Ile Glu Thr Gln Lys Met Leu Ile Ser Lys Leu Glu Lys
      225      230      235      240
Asn Lys Thr Met Lys Ser Glu Asp Lys Ala Glu Ile Met Lys Thr Leu
      245      250      255
Glu Val Leu Thr Lys Asn Ile Thr Lys Leu Lys Asp Glu Val Lys Ala
      260      265      270
Ala Ser Pro Gly Arg Cys Leu Pro Lys Ser Ile Lys Thr Lys Thr Gln
      275      280      285
Met Gln Lys Glu Leu Leu Asp Thr Glu Leu Asp Leu Tyr Lys Lys Met
      290      295      300
Gln Ala Gly Glu Glu Val Thr Glu Leu Arg Arg Lys Tyr Thr Glu Leu
      305      310      315      320
Gln Leu Glu Ala Ala Lys Arg Gly Ile Leu Ser Ser Gly Arg Gly Arg
      325      330      335
Gly Ile His Ser Arg Gly Arg Gly Ala Val His Gly Arg Gly Arg Gly
      340      345      350
Arg Gly Arg Gly Arg Gly Val Pro Gly His Ala Val Val Asp His Arg
      355      360      365
Pro Arg Ala Leu Glu Ile Ser Ala Phe Thr Glu Ser Asp Arg Glu Asp
      370      375      380
Leu Leu Pro His Phe Ala Gln Tyr Gly Glu Ile Glu Asp Cys Gln Ile
      385      390      395      400
Asp Asp Ser Ser Leu His Ala Val Ile Thr Phe Lys Thr Arg Ala Glu
      405      410      415
Ala Glu Ala Ala Val His Gly Ala Arg Phe Lys Gly Gln Asp Leu
      420      425      430
Lys Leu Ala Trp Asn Lys Pro Val Thr Asn Ile Ser Ala Val Glu Thr
      435      440      445
Glu Glu Val Glu Pro Asp Glu Glu Glu Gln Arg Glu Ile Ile Ile Ala
      450      455      460      464

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<210> 1856

<211> 344

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(343)

<223> Xaa = any amino acid or nothing

<400> 1856


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Asp Ala Glu Leu Ser Gly Thr Leu Ser Leu Val Leu Thr Gln Cys Cys
 1          5          10          15
Lys Arg Ile Lys Asp Thr Val Gln Lys Leu Ala Ser Asp His Lys Asp
 20          25          30
Ile His Ser Ser Val Ser Arg Val Gly Lys Ala Ile Asp Lys Asn Phe
 35          40          45
Asp Ser Asp Ile Ser Ser Val Gly Ile Asp Gly Cys Trp Gln Ala Asp
 50          55          60
Ser Gln Arg Leu Leu Asn Glu Val Met Val Glu His Phe Phe Arg Gln
 65          70          75          80
Gly Met Leu Asp Val Ala Glu Glu Leu Cys Gln Glu Ser Gly Leu Ser
 85          90          95
Val Asp Pro Ser Gln Lys Glu Pro Phe Val Glu Leu Asn Arg Ile Leu
100          105          110
Glu Ala Leu Lys Val Arg Val Leu Arg Pro Ala Leu Glu Trp Ala Val
115          120          125
Ser Asn Arg Glu Met Leu Ile Ala Gln Asn Ser Ser Leu Glu Phe Lys
130          135          140
Leu His Arg Leu Tyr Phe Ile Ser Leu Leu Met Gly Gly Thr Thr Asn
145          150          155          160
Gln Arg Glu Ala Leu Gln Tyr Ala Lys Asn Phe Gln Pro Phe Ala Leu
165          170          175
Asn His Gln Lys Asp Ile Gln Val Leu Met Gly Ser Leu Val Tyr Leu
180          185          190
Arg Gln Gly Ile Glu Asn Ser Pro Tyr Val His Leu Leu Asp Ala Asn
195          200          205
Gln Trp Ala Asp Ile Cys Asp Ile Phe Thr Arg Asp Ala Cys Ala Leu
210          215          220
Leu Gly Leu Ser Val Glu Ser Pro Leu Ser Val Ser Phe Ser Ala Gly
225          230          235          240
Cys Val Ala Leu Pro Ala Leu Ile Asn Ile Lys Ala Val Ile Glu Gln
245          250          255
Arg Gln Cys Thr Gly Val Trp Asn Gln Lys Asp Glu Leu Pro Ile Glu
260          265          270
Val Asp Leu Gly Xaa Lys Ser Ala Gly Tyr His Ser Ile Phe Ala Cys
275          280          285
Pro Ile Leu Arg Gln Gln Thr Thr Asp Asn Asn Pro Pro Met Lys Leu
290          295          300
Val Cys Gly His Ile Ile Ser Arg Asp Ala Leu Asn Lys Met Phe Asn
305          310          315          320
Gly Ser Lys Leu Lys Cys Pro Tyr Cys Pro Met Glu Gln Ser Pro Gly
325          330          335
Asp Ala Lys Gln Ile Phe Phe
340          343

```

<210> 1857

<211> 140

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(140)

<223> Xaa = any amino acid or nothing

<400> 1857

```

Ser His Pro Phe Ser Pro Ala Pro Gly Ile Cys Pro Asp Ala Pro Pro
 1          5          10          15
Pro Leu Pro Arg Pro Ser Lys Gly Leu Gly His Pro Gly Thr Ala Gly
 20          25          30
Ala Pro Gly Ser Gly Ala Arg Cys His Pro Pro Ser Thr Cys Ser Pro
 35          40          45

```

```

Ser Trp Ala Ser Pro Gly Xaa Gly Ala Lys Ala Ser Pro Ala Leu Pro
 50          55          60
Arg Ser His Gly Val Thr Leu Leu Cys Lys Ala Gln Ala His Leu Cys
 65          70          75          80
Arg Gly Glu Asp Ser Lys Asp Ala Ser Gly Ser Thr Ser Gln Ala Trp
          85          90          95
Glu Pro Gly Xaa Gly Ala Trp Gly Met Pro Arg Cys Gln Gly Pro Ala
          100          105          110
Leu Gly Ser Cys Phe Cys Pro Pro Gly Thr Thr Val Gln Arg Pro Ala
          115          120          125
Lys Gln Arg Asp Lys Arg Asn Arg His Leu Gly Arg
 130          135          140

```

<210> 1858

<211> 98

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(97)

<223> Xaa = any amino acid or nothing

<400> 1858

```

Trp Cys Pro Ala Gly Thr Leu Asp Phe Pro Gly Pro Gln Glu Met Val
 1          5          10          15
Leu Leu Glu Ile Glu Val Met Asn Gln Leu Asn His Arg Asn Leu Ile
          20          25          30
Gln Leu Tyr Ala Ala Ile Glu Thr Pro His Glu Ile Val Leu Phe Met
          35          40          45
Glu Tyr Glu Cys Pro Lys Xaa Trp Xaa Gly Leu Gly Gly Gly Thr Thr
          50          55          60
Arg His Gly Ala Ser Arg Gly Gly Val Cys Ala His Ser Ile Glu Gly
          65          70          75          80
Gly Glu Leu Phe Glu Arg Ile Val Asp Glu Asp Tyr His Leu Thr Glu
          85          90          95
Val
97

```

<210> 1859

<211> 123

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(120)

<223> Xaa = any amino acid or nothing

<400> 1859

```

Leu Thr Lys Thr Pro Ser Pro Arg Glu Lys Gly Arg Gly Val Leu Ser
 1          5          10          15
Val Leu Leu Met Met Ile Xaa Lys Cys Arg Val Ile Phe Val Lys Ile
          20          25          30
Pro Met Val Phe Phe Leu Gln Asn Phe Cys Arg Ile Ile Leu Asn Val
          35          40          45
Ala Trp Thr Gly Asp Xaa Pro Asn Thr Leu Xaa Lys Glu Gln Arg Gly
          50          55          60
Ile Thr Phe Ser Asp Ser Lys Ser Xaa Tyr Lys Ala Thr Lys Ile Lys
          65          70          75          80

```

```

Thr Met Trp Tyr Cys His Lys Asn Arg Tyr Ile Asp Glu Arg Asn Arg
      85          90          95
Ile Glu Ile Pro Glu Ile Asn Pro Cys Ile Cys Asp Lys Ile Ile Phe
      100          105          110
Arg Lys Leu Ser Met Thr Thr Gln
      115          120

```

```

<210> 1860
<211> 43
<212> PRT
<213> Homo sapiens

```

```

<400> 1860
Phe Ser Glu Thr Arg Ala Cys Cys Pro Arg Leu Glu His Ser Gly Arg
  1          5          10          15
Ile Glu Ala His Cys Ser Leu Asn Ile Pro Gly Ser Ser Asp Pro Pro
      20          25          30
Thr Ser Ala Ser Ser Val Ala Ala Thr Thr Gly
      35          40          43

```

```

<210> 1861
<211> 353
<212> PRT
<213> Homo sapiens

```

```

<221> misc_feature
<222> (1)...(350)
<223> Xaa = any amino acid or nothing

```

```

<400> 1861
Pro Pro Ala Trp Ala Pro Arg Ser Pro Leu Ile Trp Ala Pro Thr Ser
  1          5          10          15
Gly Arg His Pro Cys Arg Ala Ala Leu Pro Trp Ser Thr Ser Ser Val
      20          25          30
Arg Trp Gln Pro Ser Glu Lys Gln Pro Pro Pro Ala His Arg Gly
      35          40          45
Pro Ala Asp Ser Leu Ser Thr Ala Ala Gly Ala Ala Glu Leu Ser Ala
      50          55          60
Glu Gly Ala Gly Lys Ser Arg Gly Ser Gly Glu Gln Asp Trp Val Asn
      65          70          75          80
Arg Pro Lys Thr Val Arg Asp Thr Leu Leu Ala Leu His Gln His Gly
      85          90          95
His Ser Gly Pro Phe Glu Ser Lys Phe Lys Lys Glu Pro Ala Leu Thr
      100          105          110
Ala Val Ala Arg Thr Ala Arg Lys Arg Lys Pro Ser Pro Glu Pro Glu
      115          120          125
Gly Glu Val Gly Pro Pro Lys Thr Thr Glu Arg Pro Ser Arg Gly Cys
      130          135          140
Pro His Pro Gln Arg Gly Ser Arg Ser Pro Xaa Leu Leu His Pro Leu
      145          150          155          160
Leu Cys Leu Arg His His Pro Leu Pro His Leu Ile Pro Thr Gly Pro
      165          170          175
His Arg Leu Lys Arg Pro Arg Met Pro Ser Pro Met Ala Ala Leu Ile
      180          185          190
Leu Val Ala Asp Asn Ala Gly Gly Ser His Ala Ser Lys Asp Ala Asn
      195          200          205
Gln Val His Ser Thr Thr Arg Arg Asn Ser Asn Ser Pro Pro Ser Pro
      210          215          220

```

```

Ser Ser Met Asn Gln Arg Arg Leu Gly Pro Arg Glu Val Gly Gly Gln
225          230          235          240
Gly Ala Gly Asn Thr Gly Gly Leu Glu Pro Val His Pro Ala Ser Leu
          245          250          255
Pro Asp Ser Ser Leu Ala Thr Ser Ala Pro Leu Cys Cys Thr Leu Cys
          260          265          270
His Glu Arg Leu Glu Asp Thr His Phe Val Gln Cys Pro Ser Val Pro
          275          280          285
Ser His Lys Phe Cys Phe Pro Cys Ser Arg Gln Ser Ile Lys Gln Gln
          290          295          300
Gly Ala Ser Gly Glu Val Tyr Cys Pro Ser Gly Glu Lys Cys Pro Leu
305          310          315          320
Val Gly Ser Asn Val Pro Trp Ala Phe Met Gln Gly Glu Ile Ala Thr
          325          330          335
Ile Leu Ala Gly Asp Val Lys Val Lys Lys Glu Arg Asp Ser
          340          345          350

```

```

<210> 1862
<211> 366
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(361)
<223> Xaa = any amino acid or nothing

```

```

<400> 1862
Gln Asp Arg Ala Arg Leu Asp Cys Ser Ser Ala Thr Ser Ala His Cys
1          5          10          15
Asn Leu Arg Leu Pro Gly Ser Xaa Asp Ser Pro Ala Ser Ala Ser Arg
          20          25          30
Val Ala Gly Thr Thr Asp Thr His His His Thr Trp Leu Ile Leu Gly
          35          40          45
Ser Ser Val Gln Thr Gly Phe Asp His Val Gly Gln Ala Gly Leu Glu
          50          55          60
Leu Leu Thr Ser Gly Asp Pro Pro Ile Ser Ala Ser Glu Ser Ala Gly
          65          70          75          80
Ile Met Gly Met Ser His Cys Val Trp Pro Xaa Ser Trp Gly Leu Ser
          85          90          95
His His Met Ala Pro Pro Gln Gly Asp Gly Gly Arg Ala Arg Gly Thr
          100          105          110
Pro Gly Pro Glu Gln Ser Phe Trp Asn Leu Ser Cys His Xaa Pro Arg
          115          120          125
Cys Gln Val Pro Ser Xaa Leu Met Thr Gln Leu Phe Trp Gly Arg His
          130          135          140
Gln Tyr Asn Pro Thr Met Lys Arg Gly Lys Leu Arg His Arg Glu Ala
145          150          155          160
Cys Ser Leu Pro Leu Pro Gly Glu Gly Glu Pro Gly Leu Gln Pro Ser
          165          170          175
Ser Xaa Ser Gln Asn Pro Cys Ser Ser Pro Leu Phe His His Gly Leu
          180          185          190
Xaa Ala Trp Leu Trp Cys Pro Glu Leu Leu Leu Gln Gly Gln Ala Arg
          195          200          205
Arg His Xaa Arg Ser Pro Pro Ser Phe Lys Cys Pro Ala Thr Leu Ser
          210          215          220
Leu Thr Ala Trp Ser Gln Thr Lys Arg Leu Arg Ser Gln Phe Leu Leu
225          230          235          240
Leu Pro Trp Leu Xaa Arg Ala Leu Xaa His Pro Pro Cys His Trp Pro
          245          250          255
Ser Arg Arg Ser Leu Gly Asp Pro Leu Leu Pro Arg Ser Gln Gly Xaa
          260          265          270

```

```

Arg Asp Gly Thr Xaa Ala Ser Thr Phe Cys Ser Tyr Phe Xaa Asp Thr
      275                280                285
Glu Ser His Leu Val Ala Gln Ala Gly Val Gln Trp Arg Asp Leu Gly
      290                295                300
Ser Leu Gln Pro Pro Cys Pro Arg Leu Lys Arg Phe Ser Arg Leu Ser
305                310                315                320
Pro Pro Ser Ser Tyr Thr His Arg Tyr Val Pro Ser His Leu Ala Glu
      325                330                335
Ser Cys Ile Ser Ser Arg Asp Arg Ile Pro Pro Ser Arg Pro Asp Arg
      340                345                350
Ser Arg Asn Ser Asn Ser Leu Ser Arg
      355                360 361

```

<210> 1863

<211> 861

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(851)

<223> Xaa = any amino acid or nothing

<400> 1863

```

Val Ala Leu Thr Thr Ser Met Cys Cys Asn Lys Gln Val Ile Val Ile
  1                5                10                15
Asp Lys Ile Lys Ser Ala Ser Ile Ala Asp Arg Cys Gly Ala Leu His
      20                25                30
Val Gly Asp His Ile Leu Ser Ile Asp Gly Thr Ser Met Glu Tyr Cys
      35                40                45
Thr Leu Ala Glu Ala Thr Gln Phe Leu Ala Asn Thr Thr Asp Gln Val
      50                55                60
Lys Leu Glu Ile Leu Pro His His Gln Thr Arg Leu Ala Leu Lys Gly
      65                70                75                80
Pro Asp His Val Lys Ile Gln Arg Ser Asp Arg Gln Leu Thr Trp Asp
      85                90                95
Ser Trp Ala Ser Asn His Ser Ser Leu His Thr Asn His His Tyr Asn
      100                105                110
Thr Tyr His Pro Asp His Cys Arg Val Pro Ala Leu Thr Phe Pro Lys
      115                120                125
Ala Pro Pro Pro Asn Ser Pro Pro Ala Leu Val Ser Ser Ser Phe Ser
      130                135                140
Pro Thr Ser Met Ser Ala Tyr Ser Leu Ser Ser Leu Asn Met Gly Thr
      145                150                155                160
Leu Pro Arg Ser Leu Tyr Ser Thr Ser Pro Arg Gly Thr Met Met Arg
      165                170                175
Arg Arg Leu Lys Lys Lys Asp Phe Lys Ser Ser Leu Ser Leu Ala Ser
      180                185                190
Ser Thr Val Gly Leu Ala Gly Gln Val Val His Thr Glu Thr Thr Glu
      195                200                205
Val Val Leu Thr Ala Asp Pro Val Thr Gly Phe Gly Ile Gln Leu Gln
      210                215                220
Gly Ser Val Phe Ala Thr Glu Thr Leu Ser Ser Pro Pro Leu Ile Ser
      225                230                235                240
Tyr Ile Glu Ala Asp Ser Pro Ala Glu Arg Cys Gly Val Leu Gln Ile
      245                250                255
Gly Asp Arg Val Met Ala Ile Asn Gly Ile Pro Thr Glu Asp Ser Thr
      260                265                270
Phe Glu Glu Ala Ser Gln Leu Leu Arg Asp Ser Ser Ile Thr Ser Lys
      275                280                285
Val Thr Leu Glu Ile Glu Phe Asp Val Ala Glu Ser Val Ile Pro Ser
      290                295                300

```

Ser Gly Thr Phe His Val Lys Leu Pro Lys Lys His Asn Val Glu Leu
 305 310 315 320
 Gly Ile Thr Ile Ser Ser Pro Ser Ser Arg Lys Pro Gly Asp Pro Leu
 325 330 335
 Val Ile Ser Asp Ile Lys Lys Gly Ser Val Ala His Arg Thr Gly Thr
 340 345 350
 Leu Glu Leu Gly Asp Lys Leu Leu Ala Ile Asp Asn Ile Arg Leu Asp
 355 360 365
 Asn Cys Ser Met Glu Asp Ala Val Gln Ile Leu Gln Gln Cys Glu Asp
 370 375 380
 Leu Val Lys Leu Lys Ile Arg Lys Asp Glu Asp Asn Ser Asp Glu Gln
 385 390 395 400
 Glu Ser Ser Gly Ala Ile Ile Tyr Thr Val Glu Leu Lys Arg Tyr Gly
 405 410 415
 Gly Pro Leu Gly Ile Thr Ile Ser Gly Thr Glu Glu Pro Phe Asp Leu
 420 425 430
 Xaa Ile Ile Ser Ser Leu Thr Lys Gly Gly Leu Ala Glu Arg Thr Gly
 435 440 445
 Ala Ile His Ile Gly Asp Arg Ile Leu Ala Ile Asn Ser Ser Ser Leu
 450 455 460
 Lys Gly Lys Pro Leu Ser Glu Ala Ile His Leu Leu Gln Met Ala Gly
 465 470 475 480
 Glu Thr Val Thr Leu Lys Ile Lys Lys Gln Thr Asp Ala Gln Ser Ala
 485 490 495
 Ser Ser Pro Lys Lys Phe Pro Ile Ser Ser His Leu Ser Asp Leu Gly
 500 505 510
 Asp Val Glu Glu Asp Ser Ser Pro Ala Gln Lys Pro Gly Lys Leu Ser
 515 520 525
 Asp Met Tyr Pro Ser His Gly Cys Pro Ser Val Asp Ser Ala Val Asp
 530 535 540
 Ser Trp Asp Gly Ser Ala Ile Asp Thr Ser Tyr Gly Thr Glu Gly Thr
 545 550 555 560
 Ser Phe Gln Ala Ser Gly Tyr Asn Phe Asn Thr Tyr Asp Trp Arg Ser
 565 570 575
 Pro Lys Gln Arg Gly Ser Leu Ser Pro Val Thr Lys Pro Arg Ser Gln
 580 585 590
 Thr Tyr Pro Asp Val Gly Leu Ser Tyr Glu Asp Trp Asp Arg Ser Thr
 595 600 605
 Ala Ser Gly Phe Ala Gly Ala Ala Asp Ser Ala Glu Thr Glu Gln Glu
 610 615 620
 Glu Asn Phe Trp Ser Gln Ala Leu Glu Asp Leu Glu Thr Cys Gly Gln
 625 630 635 640
 Ser Gly Ile Leu Arg Glu Leu Glu Ala Thr Ile Met Ser Gly Ser Thr
 645 650 655
 Met Ser Leu Asn His Glu Ala Pro Thr Pro Arg Ser Pro Ala Gly Ser
 660 665 670
 Asp Arg Pro Ser Phe Gln Glu Arg Ser Ser Ser Arg Pro His Tyr Ser
 675 680 685
 Gln Thr Thr Arg Ser Asn Thr Leu Pro Ser Asp Val Gly Arg Lys Ser
 690 695 700
 Val Thr Leu Arg Lys Met Lys Gln Glu Ile Lys Glu Ile Met Ser Pro
 705 710 715 720
 Thr Pro Val Glu Leu His Lys Val Thr Leu Tyr Lys Asp Ser Asp Met
 725 730 735
 Glu Asp Phe Gly Phe Ser Val Ala Asp Gly Leu Leu Glu Lys Gly Val
 740 745 750
 Tyr Val Lys Asn Ile Arg Pro Ala Gly Pro Gly Asp Leu Gly Gly Leu
 755 760 765
 Lys Pro Tyr Asp Arg Leu Leu Gln Val Asn His Val Arg Thr Arg Asp
 770 775 780
 Phe Asp Cys Cys Leu Val Val Pro Leu Ile Ala Glu Ser Gly Asn Lys
 785 790 795 800
 Leu Asp Leu Val Ile Ser Arg Asn Pro Leu Ala Ser Gln Lys Ser Ile
 805 810 815

Asp Gln Gln Ser Leu Pro Gly Asp Xaa Ser Glu Gln Asn Ser Ala Phe
 820 825 830
 Phe Gln Gln Pro Ser His Gly Gly Asn Leu Glu Thr Arg Glu Pro Thr
 835 840 845
 Asn Thr Leu
 850 851

<210> 1864
 <211> 179
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(178)
 <223> Xaa = any amino acid or nothing

<400> 1864
 Leu Glu Lys Gln Gly Val Ser Gly Met Ala Thr Lys Arg Leu Ala Arg
 1 5 10 15
 Gln Leu Gly Leu Ile Arg Arg Lys Ser Ile Ala Pro Ala Asn Gly Asn
 20 25 30
 Leu Gly Arg Ser Lys Ser Lys Gln Leu Phe Asp Tyr Leu Ile Val Ile
 35 40 45
 Asp Phe Glu Ser Thr Cys Trp Asn Asp Gly Lys His His His Ser Gln
 50 55 60
 Glu Ile Ile Glu Phe Pro Ala Val Leu Leu Asn Thr Ser Thr Gly Gln
 65 70 75 80
 Ile Asp Ser Glu Phe Gln Ala Tyr Val Gln Pro Gln Glu His Pro Ile
 85 90 95
 Leu Ser Glu Phe Cys Met Glu Leu Thr Gly Ile Lys Gln Ala Gln Val
 100 105 110
 Asp Glu Gly Val Pro Leu Lys Ile Cys Leu Ser Gln Phe Cys Lys Trp
 115 120 125
 Ile His Lys Ile Gln Gln Gln Lys Asn Ile Ile Phe Ala Thr Gly Ile
 130 135 140
 Ser Glu Pro Ser Asp Phe Xaa Ser Lys Ile Met Cys Ile Cys Tyr Leu
 145 150 155 160
 Val Arg Xaa Arg Ile Ser Tyr Thr Tyr Xaa Ser Lys His Lys Ser Lys
 165 170 175
 Gly Cys
 178

<210> 1865
 <211> 105
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(103)
 <223> Xaa = any amino acid or nothing

<400> 1865
 Cys Arg Phe Trp Gly Ile Ser Thr His Cys Asp Thr Cys Asp Pro Leu
 1 5 10 15
 Ser Pro Gln Thr Thr Glu Gly Xaa Xaa Glu Gly Asp Leu Trp Ser Leu
 20 25 30
 Asp Leu Leu Gly Pro Glu Phe Leu Ala Arg Lys Pro Leu Phe Lys Thr
 35 40 45

Lys Thr Tyr Gln Ser Thr Phe Xaa Ser Ile Ser Lys Asn Glu Phe Thr
 50 55 60
 Cys Pro Asn Phe Ile Ile Glu Glu Gly Thr Asp Leu Ile Phe Xaa Gln
 65 70 75 80
 Val Lys His Asn Pro Cys His Arg Leu Thr Pro Glu Glu Gly Thr Val
 85 90 95
 Gln Leu Asn Arg Ala Asp Ser
 100 103

<210> 1866
 <211> 454
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(452)
 <223> Xaa = any amino acid or nothing

<400> 1866
 Lys Met Leu Cys Gln Lys Glu Ser Asn Tyr Ile Arg Leu Lys Arg Ala
 1 5 10 15
 Lys Met Asp Lys Ser Met Phe Val Lys Ile Lys Thr Leu Gly Ile Gly
 20 25 30
 Ala Phe Gly Glu Val Cys Leu Ala Arg Lys Val Asp Thr Lys Ala Leu
 35 40 45
 Tyr Ala Thr Lys Thr Leu Arg Lys Lys Asp Val Leu Leu Arg Asn Gln
 50 55 60
 Val Ala His Val Lys Ala Glu Arg Asp Ile Leu Ala Glu Ala Asp Asn
 65 70 75 80
 Glu Trp Val Val Arg Leu Tyr Tyr Ser Phe Gln Asp Lys Asp Asn Leu
 85 90 95
 Tyr Phe Val Met Asp Tyr Ile Pro Gly Gly Asp Met Met Ser Leu Leu
 100 105 110
 Ile Arg Met Gly Ile Phe Pro Glu Ser Leu Ala Arg Phe Tyr Ile Ala
 115 120 125
 Glu Leu Thr Cys Ala Val Glu Ser Val His Lys Met Gly Phe Ile His
 130 135 140
 Arg Asp Ile Lys Pro Asp Asn Ile Leu Ile Asp Arg Asp Gly His Ile
 145 150 155 160
 Lys Leu Thr Asp Phe Gly Leu Cys Thr Gly Phe Arg Trp Thr His Asp
 165 170 175
 Ser Lys Tyr Tyr Gln Ser Gly Asp His Pro Arg Gln Asp Ser Met Asp
 180 185 190
 Phe Ser Asn Glu Trp Gly Asp Pro Ser Ser Cys Arg Cys Gly Asp Arg
 195 200 205
 Leu Lys Pro Leu Glu Arg Arg Ala Ala Arg Gln His Gln Arg Cys Leu
 210 215 220
 Ala His Ser Leu Val Gly Thr Pro Asn Tyr Ile Ala Pro Glu Val Leu
 225 230 235 240
 Leu Arg Thr Gly Tyr Thr Gln Leu Cys Asp Trp Trp Ser Val Gly Val
 245 250 255
 Ile Leu Phe Glu Met Leu Val Gly Gln Pro Pro Phe Leu Ala Gln Thr
 260 265 270
 Pro Leu Glu Thr Gln Met Lys Val Ile Asn Trp Gln Thr Ser Leu His
 275 280 285
 Ile Pro Pro Gln Ala Lys Leu Ser Pro Glu Ala Ser Asp Leu Ile Ile
 290 295 300
 Lys Leu Cys Arg Gly Pro Glu Asp Arg Leu Gly Lys Asn Gly Ala Asp
 305 310 315 320
 Glu Ile Lys Ala His Pro Ile Phe Xaa Asn Gln Phe Asp Phe Ser Gln
 325 330 335


```

Xaa Pro Glu Asp Ser Arg Ser Ala Phe Lys Gln Phe Pro Xaa Asn His
      340      345      350
Thr Thr Pro Thr Asp Thr Ser Asn Phe Asp Pro Val Asp Pro Asp Lys
      355      360      365
Leu Trp Ser Asp Asp Asn Glu Glu Asn Val Asn Asp Thr Leu Asn
      370      375      380
Gly Trp Tyr Lys Asn Gly Lys His Pro Glu His Ala Phe Tyr Glu Phe
      385      390      395      400
Thr Phe Arg Arg Phe Phe Asp Asp Asn Gly Tyr Pro Tyr Asn Tyr Pro
      405      410      415
Lys Pro Ile Glu Tyr Glu Tyr Ile Asn Ser Gln Gly Ser Glu Gln Gln
      420      425      430
Ser Asp Glu Asp Asp Gln Asn Thr Gly Ser Glu Ile Lys Asn Arg Asp
      435      440      445
Leu Val Tyr Val
      450      452

```

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<210> 1867
<211> 114
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(111)
<223> Xaa = any amino acid or nothing

```

```

<400> 1867
Phe Phe Phe Lys Lys Phe Thr Gln Ser Leu Gly Phe Leu Leu Phe Ser
 1      5      10      15
Phe Ser Phe Leu Phe Ser Cys Phe Phe Phe Phe His Phe Val Leu Phe
      20      25      30
Cys Tyr Val Phe Leu Asp Arg Val Pro Leu Cys His Pro Gly Trp Ser
      35      40      45
Ala Val Val Gln Ser Gln Val Thr Val Asn Leu Pro Pro Ser Trp Asp
      50      55      60
Xaa Arg Cys Arg Pro Pro His Leu Ala Asn Leu Cys Asn Phe Cys Arg
      65      70      75      80
Asp Ser Phe Thr Thr Leu Pro Arg Leu Val Leu Asn Thr Trp Ala Gln
      85      90      95
Ala Ile Phe Gln Pro Gln Pro Pro Lys Val Leu Gly Leu Gln Val
      100      105      110 111

```

```

<210> 1868
<211> 105
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(103)
<223> Xaa = any amino acid or nothing

```

```

<400> 1868
Ser Pro Glu Met Glu Ser His Pro Ile Thr Gln Ala Gly Val Gln Trp
 1      5      10      15
His His Leu Ser Ser Leu Gln Pro Leu Pro Pro Gly Phe Lys Xaa Phe
      20      25      30
Ser Cys Phe Ser Leu Pro Glu Xaa Leu Gly Tyr Arg His Val Pro Pro
      35      40      45

```

Cys Leu Ala Asn Ser Val Phe Ser Val Glu Met Gly Phe Leu His Val
 50 55 60
 Gly Gln Ala Gly Leu Glu Leu Thr Ser Gly Asp Leu Pro Ala Leu
 65 70 75 80
 Ala Ser Gln Ser Ala Gly Ile Thr Gly Ser His Arg Ala Arg Pro Glu
 85 90 95
 Asn Gly Phe Glu Asn Ile Phe
 100 103

<210> 1869
 <211> 214
 <212> PRT
 <213> Homo sapiens

<400> 1869
 Asn Gln Gly Leu Arg His Val Gly Leu Cys Arg Thr Cys Leu Val Asn
 1 5 10 15
 Gln Met Phe Ala Ser Ser Ile Leu Gly Lys Ser His His His Ser Leu
 20 25 30
 Ile Ser Ile Asn Gln Gly His Asn Ala Leu Trp Lys Ala Ala Gly Pro
 35 40 45
 Leu Pro Leu Lys Ala Gly Tyr Cys Gln Ser Phe Ser Pro Cys Asp Ser
 50 55 60
 Leu Lys Tyr Gly Ser Trp Asp Glu Lys Asp Leu Thr Val Pro Gln Arg
 65 70 75 80
 Asp Thr His Lys Arg Ser Val Leu Arg Trp Ile Ser Gln Arg Gly Lys
 85 90 95
 Leu Ala Val Glu Met Glu Glu Gly His Cys Leu Leu Leu Pro Leu Gly
 100 105 110
 Thr Glu Cys Leu Gly Ile Lys Pro Ile Val His Leu Phe Ser Ser Glu
 115 120 125
 Met Gly Glu Asn Arg Pro Met Val Gly Ala Arg His Val Tyr Ser Asn
 130 135 140
 Ala Ala Leu Leu Ser Phe Thr Pro Leu Arg Cys Leu Gly Gly Glu Lys
 145 150 155 160
 His Lys Ser Gly Leu His Ala Arg Pro Val Ile Val Pro Ser Leu Glu
 165 170 175
 Leu His Tyr Asp Met Asp Ser Ile Ala His Val Phe Ala Asp Leu Leu
 180 185 190
 Leu Ile Ile Thr Leu Pro Ser Tyr Tyr Ile Pro Phe Cys
 195 200 205

<210> 1870
 <211> 63
 <212> PRT
 <213> Homo sapiens

<221> misc_feature
 <222> (1)...(61)
 <223> Xaa = any amino acid or nothing

<400> 1870
 Gln Ser Phe Arg Leu Ser Leu Leu Ser Ser Trp Asp Tyr Arg His Met
 1 5 10 15
 Xaa Pro Arg Leu Ala Asn Phe Xaa Thr Phe Phe Cys Arg Asp Arg Ser
 20 25 30
 Leu Ala Leu Leu Pro Arg Leu Val Ser Asn Ser Trp Pro Gln Ala Ile
 35 40 45

Leu Pro Pro Arg Pro Pro Lys Val Leu Gly Leu Gln Thr
 50 55 60 61

<210> 1871
 <211> 57
 <212> PRT
 <213> Homo sapiens
 <221> misc_feature
 <222> (1)...(56)
 <223> Xaa = any amino acid or nothing

<400> 1871
 Phe Phe Phe Xaa Glu Thr Val Ser Cys Ser Ala Ser Xaa Ala Gly Val
 1 5 10 15
 Arg Ser His Asp Asn Ser Ser Leu Gln Pro Pro Ser Pro Gly Ser Ser
 20 25 30
 Asn Pro Pro Thr Ser Ala Ser His Val Ala Gly Ala Thr Gly Thr His
 35 40 45
 His His Ala Trp Leu Leu Ser Val
 50 55 56

<210> 1872
 <211> 125
 <212> PRT
 <213> Homo sapiens
 <221> misc_feature
 <222> (1)...(125)
 <223> Xaa = any amino acid or nothing

<400> 1872
 Gln Gly Ile Ala Leu Leu Thr Arg Met Gly Glu Ser Val Lys His Val
 1 5 10 15
 Thr Gly Gly Tyr Lys Leu Arg Thr Arg Pro Leu Glu Phe Ala Ala Ile
 20 25 30
 Gly Asp Tyr Leu Asp Thr Phe Ala Leu Lys Leu Gly Thr Ile Asp Arg
 35 40 45
 Ile Ala Gln Arg Ile Ile Lys Glu Glu Ile Glu Tyr Leu Val Glu Leu
 50 55 60
 Arg Glu Tyr Gly Pro Val Tyr Ser Thr Trp Ser Ala Leu Glu Gly Glu
 65 70 75 80
 Leu Ala Glu Pro Leu Glu Gly Val Ser Ala Cys Ile Gly Asn Cys Ser
 85 90 95
 Thr Ala Leu Xaa Glu Leu Thr Asp Asp Met Thr Glu Asp Phe Leu Phe
 100 105 110
 Val Leu Arg Glu Tyr Ile Leu Tyr Ser Asp Ser Met Lys
 115 120 125

<210> 1873
 <211> 110
 <212> PRT
 <213> Homo sapiens
 <221> misc_feature
 <222> (1)...(107)

<223> Xaa = any amino acid or nothing

<400> 1873

```

Glu Arg Val Ile His Asn Gln Ile Gln Gln Ala Gln Arg Ser Pro His
 1           5           10           15
Ile Phe Asn Ala Arg Arg Ser Ser Pro Arg Pro Asn Ile Val Glu Leu
           20           25           30
Pro Lys Val Lys Glu Val Cys Lys Thr Ser Lys Ser Gly Gln Val Ile
           35           40           45
Tyr Lys Gly Val Ser Ile Arg Leu Arg Ala Asn Phe Leu Ala Glu Pro
           50           55           60
Leu Xaa Asn Arg Arg Glu Trp Asp Glu Ala Ile Lys Val Leu Lys Glu
           65           70           75           80
Lys Gln Phe Leu Ser Lys Met Val Tyr Pro Ala Asn Leu Ser Phe Gly
           85           90           95
Asn Glu Gly Asp Ile Thr Ser Phe Pro Ala Lys
           100           105           107

```

<210> 1874

<211> 108

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(107)

<223> Xaa = any amino acid or nothing

<400> 1874

```

Phe Phe Leu Arg Trp Ser Leu Asp Ser Val Ala Gln Ala Gly Val Lys
 1           5           10           15
Trp Cys Asn Leu Gly Ser Leu Gln Ala Pro Pro Pro Gly Phe Thr Pro
           20           25           30
Phe Ser Cys Leu Ser Leu Pro Ser Trp Asp Tyr Arg His Pro Pro
           35           40           45
Pro Arg Leu Ala Asn Xaa Leu Thr Asn Phe Leu Cys Phe Xaa Xaa Arg
           50           55           60
Gln Gly Phe Thr Val Leu Ala Arg Met Val Leu Ile Ser Xaa Pro His
           65           70           75           80
Asp Leu Pro Ala Ser Ala Ser Gln Ser Ala Gly Ile Thr Gly Leu Ser
           85           90           95
His Cys Ser Trp Pro Thr Ser Ser Ile Leu Ser
           100           105           107

```

<210> 1875

<211> 146

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(144)

<223> Xaa = any amino acid or nothing

<400> 1875

```

Gln Phe Arg Val Ile Phe Phe Phe Leu Arg Arg Ser His Ser Val Ala
 1           5           10           15
Gln Ala Gly Met Gln Trp His Asp His Ser Leu Leu Gln Pro Leu Pro
           20           25           30

```

```

Pro Arg Leu Lys Gln Phe Ser His Leu Ser Pro Pro Ser Ile Trp Asp
    35          40          45
Tyr Arg Arg Val Pro Pro Cys Leu Val Asn Phe Ser Ile Phe Phe Val
    50          55          60
Glu Thr Gly Ser Cys Gln Pro Cys Leu Gln Leu Leu Gly Ser Ser Asn
    65          70          75          80
Pro Pro Ala Ser Ala Ser Gln Ser Ala Gly Ile Ala Gly Ile Ser His
    85          90          95
Gln Gly Gln Pro Glu Xaa Ser Phe Asp Ile Arg Phe Ala Cys Val Ile
    100          105          110
Ala Ala Leu Arg Glu Thr Phe Gln Cys Leu Cys Ser Ala Ser Arg Val
    115          120          125
Asn Asn Lys Ile Ile Asn Arg Pro Thr His Pro Val Glu Ser Ser Phe
    130          135          140          144

```

```

<210> 1876
<211> 88
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(87)
<223> Xaa = any amino acid or nothing

```

```

<400> 1876
Thr Pro Ser Ser Thr Ser Arg Gly Thr Glu Glu Gln Gln Ser Ser Lys
  1          5          10          15
Met Ala Trp Gln Arg Arg Glu Glu Lys Glu His Leu Asn Val Arg Arg
    20          25          30
Ser Ser Ala Glu Asp Gly Trp Lys Ala Asp Lys Pro Val Asp Gly Xaa
    35          40          45
Thr Pro Gly Glu Asp His Leu Pro Thr Pro Ser Pro Phe Gln Leu His
    50          55          60
Ile His Ser Ser Glu Ser Gln Leu His His Ser Val Lys Ser Pro Pro
    65          70          75          80
Ser Leu Ser Phe Arg Leu Met
    85          87

```

```

<210> 1877
<211> 121
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(119)
<223> Xaa = any amino acid or nothing

```

```

<400> 1877
Asp Phe Tyr Leu Tyr Pro Glu Arg Lys Lys Arg Gly Gln Met Met Thr
  1          5          10          15
Ala Val Ser Leu Thr Thr Arg Pro Gln Glu Ser Val Ala Phe Glu Asp
    20          25          30
Val Ala Val Tyr Phe Thr Thr Lys Glu Trp Ala Ile Met Gly Pro Ala
    35          40          45
Glu Arg Ala Leu Tyr Arg Asp Val Met Leu Glu Asn Tyr Gly Gly Cys
    50          55          60

```

Gly Pro Leu Xaa Cys His Pro Thr Ser Lys Pro Ala Leu Val Phe Ser
 65 70 75 80
 Leu Glu Gln Gly Lys Glu Ser Cys Phe Ser Pro Ala Thr Gly Ser Ser
 85 90 95
 Leu Ser Arg Asn Asp Trp Arg Ala Gly Trp Ile Gly Tyr Leu Glu Leu
 100 105 110
 Arg Arg Tyr Thr Tyr Leu Ser
 115 119

<210> 1878
 <211> 311
 <212> PRT
 <213> Homo sapiens

<400> 1878
 Gly Thr Ser Glu Leu Leu Cys Ile Gln Arg Trp Asn Trp Gly Pro Ala
 1 5 10 15
 Phe Pro Pro Arg Pro Gly Leu Ala Leu Ala Pro Thr Leu Gln Leu Leu
 20 25 30
 Val Glu Met Gly Ser Ala Lys Ser Val Pro Val Thr Pro Ala Arg Pro
 35 40 45
 Pro Pro His Asn Lys His Leu Ala Arg Val Ala Asp Pro Arg Ser Pro
 50 55 60
 Ser Ala Gly Ile Leu Arg Thr Pro Ile Gln Val Glu Ser Ser Pro Gln
 65 70 75 80
 Pro Gly Leu Pro Ala Gly Glu Gln Leu Glu Gly Leu Lys His Ala Gln
 85 90 95
 Asp Ser Asp Pro Arg Ser Pro Thr Leu Gly Ile Ala Arg Thr Pro Met
 100 105 110
 Lys Thr Ser Ser Gly Asp Pro Pro Ser Pro Leu Val Lys Gln Leu Ser
 115 120 125
 Glu Val Phe Glu Thr Glu Asp Ser Lys Ser Asn Leu Pro Pro Glu Pro
 130 135 140
 Val Leu Pro Pro Glu Ala Pro Leu Ser Ser Glu Leu Asp Leu Pro Leu
 145 150 155 160
 Gly Thr Gln Leu Ser Val Glu Glu Gln Met Pro Pro Trp Asn Gln Thr
 165 170 175
 Glu Phe Pro Ser Lys Gln Val Phe Ser Lys Glu Glu Ala Arg Gln Pro
 180 185 190
 Thr Glu Thr Pro Val Ala Ser Gln Ser Ser Asp Lys Pro Ser Arg Asp
 195 200 205
 Pro Glu Thr Pro Arg Ser Ser Gly Ser Met Arg Asn Arg Trp Lys Pro
 210 215 220
 Asn Ser Ser Lys Val Leu Gly Lys Ser Pro Leu His Pro Ser Cys Gln
 225 230 235 240
 Asp Asp Asn Ser Pro Gly Thr Leu Thr Leu Arg Gln Gly Lys Ala Ala
 245 250 255
 Phe Lys Pro Leu Ser Glu Asn Val Ser Glu Leu Lys Glu Gly Ala Ile
 260 265 270
 Leu Gly Thr Gly Arg Leu Leu Lys Thr Glu Gly Arg Ala Trp Glu Gln
 275 280 285
 Gly Gln Asp His Asp Lys Glu Asn Gln His Phe Pro Leu Val Glu Ser
 290 295 300 304

<210> 1879
 <211> 123
 <212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(122)

<223> Xaa = any amino acid or nothing

<400> 1879

```

Lys Asp Met Val Leu Ile Met Glu Met Gln Ser Met Ile Thr Met Lys
 1           5           10           15
Cys Pro Gln Tyr Leu Xaa Glu Xaa Arg Lys Ile Pro Asp Ile Thr Lys
           20           25           30
Cys Trp Xaa Gly Cys Gly Ser Thr Gly Ile Leu Ile Phe Cys Trp Ser
           35           40           45
Xaa Pro Leu Xaa Lys Thr Ile Xaa Gln Pro Arg Xaa Phe Lys Gln Ile
           50           55           60
Xaa Thr Ile Leu Thr Ile Ile Tyr Ser Ile Met Xaa Glu His Thr Phe
           65           70           75           80
His Asn Ala Gly Val Xaa Leu Ser Asp Ile Tyr Pro Arg Phe Met Lys
           85           90           95
Gly Tyr Val His Thr Glu Ile Cys Thr Xaa Met Phe Ile Ala Val Leu
           100          105          110
Phe Val Val Val Lys Thr Trp Lys Gln Phe
           115          120          122

```

<210> 1880

<211> 120

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(119)

<223> Xaa = any amino acid or nothing

<400> 1880

```

Leu Leu Glu Val Asn Gly Asn Thr Ile Val Thr Val Phe Thr Lys Ala
 1           5           10           15
Gln Asn Lys Lys Asn Lys Gly Ser Arg Ser Ile Leu Phe Lys Gln Leu
           20           25           30
Arg Lys Tyr Gly Ser Arg Ile Asn Leu Leu Lys Ser Lys His Asp Lys
           35           40           45
Asn Ile Cys Thr Glu Asn Tyr Lys Thr Xaa Met Lys Glu Ile Glu Ala
           50           55           60
Asp Thr Asp Lys Trp Lys Asp Ile Leu Cys Ser Trp Ile Arg Arg Ile
           65           70           75           80
His Met Lys Asp Ile Leu Cys Ser Trp Ile Gly Arg Thr His Val Val
           85           90           95
Lys Ile Ser Ile Leu Pro Lys Val Asn Tyr Arg Phe Tyr Leu Ile Ser
           100          105          110
Ile Lys Ile Ile Met Ala Ile
           115          119

```

<210> 1881

<211> 102

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(100)

<223> Xaa = any amino acid or nothing

<400> 1881

```

Thr Gln Gly Thr Glu Glu Ile Tyr Lys Ile Ser Ser Cys Glu Trp Val
 1          5          10          15
Gln Ala Ser Phe Ser Thr Pro Leu Ile Thr Leu His Asp Phe Lys Ile
          20          25          30
Tyr His Lys Ala Thr Val Ile Lys Met Val Trp Tyr Trp His Arg Gln
          35          40          45
Xaa Lys Phe Ser Lys Asn Arg Ile Glu Ser Ser Glu Ile Glu Pro His
          50          55          60
Ile Tyr Asp Gln Phe Ile Phe Asp Lys Gly Glu Lys Ile Ile Gln Glu
          65          70          75          80
Lys Gly Asn Ser Phe Phe Asn Asn Met Cys Trp Lys Asn Trp Ile Phe
          85          90          95
Thr Xaa Lys Arg
          100

```

<210> 1882

<211> 117

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(116)

<223> Xaa = any amino acid or nothing

<400> 1882

```

Asn Asp Leu Leu Glu Asn Phe Lys Phe Trp Glu Xaa Phe Lys Glu Xaa
 1          5          10          15
Leu Glu Asn Ile Asn Gly Thr Val Thr Glu Lys Glu Thr Gly Gly Val
          20          25          30
Tyr Lys Glu Leu Ser Ser Pro Lys Tyr Ser Gly Thr Arg Gln Phe Tyr
          35          40          45
Gly Gln Thr Ile Ser Asn Phe Pro Gly Lys Ile Ile Ser Met Val Tyr
          50          55          60
Lys Leu Phe Gln Asn Thr Glu Thr Glu Gly Arg His Pro Ile Ser Leu
          65          70          75          80
Tyr Glu Phe Arg Ile Thr Leu Ile Thr Ile Pro Asn Lys Asp Asn Ile
          85          90          95
Tyr Leu Gln Ile Trp Met Pro Val Ser Leu Met Asn Ile Val Thr Leu
          100          105          110
Lys Cys Pro Thr
          115 116

```

<210> 1883

<211> 124

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(119)

<223> Xaa = any amino acid or nothing

<400> 1883

```

Pro Ile Arg Lys Phe Thr Lys Val Ala Gly Xaa Lys Ser Asn Thr Pro
 1          5          10          15

```


Lys Xaa Leu Ala Phe Leu His Ile Asn Asn Glu Gln Phe Glu Asn Lys
 20 25 30
 Ile Ile Thr Asn Ile Pro Phe Ile Ile Ala Ser Lys Arg Ile Lys Tyr
 35 40 45
 Ser Gly Ile Ser Leu Thr Lys Glu Met Lys Asp Leu Tyr Thr Glu Thr
 50 55 60
 Leu Leu Arg Lys Ile Lys Glu Asp Thr Asn Lys Trp Lys Asp Ile Ser
 65 70 75 80
 Cys Phe Trp Val Gly Arg Leu Asn Ile Val Lys Met Pro Lys Val Ile
 85 90 95
 Cys Ile Phe Asn Ala Ile Pro Ile Lys Met Pro Met Met Cys Met Ala
 100 105 110
 Lys Ile Glu Lys Asn Ser Ser
 115 119

<210> 1884

<211> 643

<212> PRT

<213> Homo sapiens

<400> 1884

Ile Ile Asp Ser Ser Thr Arg Arg Met Glu Ser Glu Arg Ser Pro Leu
 1 5 10 15
 Tyr Arg Gln Leu Ile Asp Leu Gly Tyr Leu Ser Ser Ser His Trp Asn
 20 25 30
 Cys Gly Ala Pro Gly Gln Asp Thr Lys Ala Gln Ser Met Leu Val Glu
 35 40 45
 Gln Ser Glu Lys Leu Arg His Leu Ser Thr Phe Ser His Gln Val Leu
 50 55 60
 Gln Thr Arg Leu Val Asp Ala Ala Lys Ala Leu Asn Leu Val His Cys
 65 70 75 80
 His Cys Leu Asp Ile Phe Ile Asn Gln Ala Phe Asp Met Gln Arg Asp
 85 90 95
 Leu Gln Ile Thr Pro Lys Arg Leu Glu Tyr Thr Arg Lys Lys Glu Asn
 100 105 110
 Glu Leu Tyr Glu Ser Leu Met Asn Ile Ala Asn Arg Lys Gln Glu Glu
 115 120 125
 Met Lys Asp Met Ile Val Glu Thr Leu Asn Thr Met Lys Glu Glu Leu
 130 135 140
 Leu Asp Asp Ala Thr Asn Met Glu Phe Lys Asp Val Ile Val Pro Glu
 145 150 155 160
 Asn Gly Glu Pro Val Gly Thr Arg Glu Ile Lys Cys Cys Ile Arg Gln
 165 170 175
 Ile Gln Glu Leu Ile Ile Ser Arg Leu Asn Gln Ala Val Ala Asn Lys
 180 185 190
 Leu Ile Ser Ser Val Asp Tyr Leu Arg Glu Ser Phe Val Gly Thr Leu
 195 200 205
 Glu Arg Cys Leu Gln Ser Leu Glu Lys Ser Gln Asp Val Ser Val His
 210 215 220
 Ile Thr Ser Asn Tyr Leu Lys Gln Ile Leu Asn Ala Ala Tyr His Val
 225 230 235 240
 Glu Val Thr Phe His Ser Gly Ser Ser Val Thr Arg Met Leu Trp Glu
 245 250 255
 Gln Ile Lys Gln Ile Ile Gln Arg Ile Thr Trp Val Ser Pro Pro Ala
 260 265 270
 Ile Thr Leu Glu Trp Lys Arg Lys Val Ala Gln Glu Ala Ile Glu Ser
 275 280 285
 Leu Ser Ala Ser Lys Leu Ala Lys Ser Ile Cys Ser Gln Phe Arg Thr
 290 295 300
 Arg Leu Asn Ser Ser His Glu Ala Phe Ala Ala Ser Leu Arg Gln Leu
 305 310 315 320

Glu Ala Gly His Ser Gly Arg Leu Glu Lys Thr Glu Asp Leu Trp Leu
 325 330 335
 Arg Val Arg Lys Asp His Ala Pro Arg Leu Ala Arg Leu Ser Leu Glu
 340 345 350
 Ser Arg Ser Leu Gln Asp Val Leu Leu His Arg Lys Pro Lys Leu Gly
 355 360 365
 Gln Glu Leu Gly Arg Gly Gln Tyr Gly Val Val Tyr Leu Cys Asp Asn
 370 375 380
 Trp Gly Gly His Phe Pro Cys Ala Leu Lys Ser Val Val Pro Pro Asp
 385 390 395 400
 Glu Lys His Trp Asn Asp Leu Ala Leu Glu Phe His Tyr Met Arg Ser
 405 410 415
 Leu Pro Lys His Glu Arg Leu Val Asp Leu His Gly Ser Val Ile Asp
 420 425 430
 Tyr Asn Tyr Gly Gly Gly Ser Ser Ile Ala Val Leu Leu Ile Met Glu
 435 440 445
 Arg Leu His Arg Asp Leu Tyr Thr Gly Leu Lys Ala Gly Leu Thr Leu
 450 455 460
 Glu Thr Arg Leu Gln Ile Ala Leu Asp Val Val Glu Gly Ile Arg Phe
 465 470 475 480
 Leu His Ser Gln Gly Leu Val His Arg Asp Ile Lys Leu Lys Asn Val
 485 490 495
 Leu Leu Asp Lys Gln Asn Arg Ala Lys Ile Thr Asp Leu Gly Phe Cys
 500 505 510
 Lys Pro Glu Ala Met Met Ser Gly Ser Ile Val Gly Thr Pro Ile His
 515 520 525
 Met Ala Pro Glu Leu Phe Thr Gly Lys Tyr Asp Asn Ser Val Asp Val
 530 535 540
 Tyr Ala Phe Gly Ile Leu Phe Trp Tyr Ile Cys Ser Gly Ser Val Lys
 545 550 555 560
 Leu Pro Glu Ala Phe Glu Arg Cys Ala Ser Lys Asp His Leu Trp Asn
 565 570 575
 Asn Val Arg Arg Gly Ala Arg Pro Glu Arg Leu Pro Val Phe Asp Glu
 580 585 590
 Glu Cys Trp Gln Leu Met Glu Ala Cys Trp Asp Gly Asp Pro Leu Lys
 595 600 605
 Arg Pro Leu Leu Gly Ile Val Gln Pro Met Leu Gln Gly Ile Met Asn
 610 615 620
 Arg Leu Cys Lys Ser Asn Ser Glu Gln Pro Asn Arg Gly Leu Asp Asp
 625 630 635 640
 Ser Thr
 642

<210> 1885

<211> 140

<212> PRT

<213> Homo sapiens

<400> 1885

Ala Leu Met Pro His Glu Ala Asn Tyr Glu Glu Ile Phe Leu Lys Thr
 1 5 10 15
 Asp Lys Asp Met Asp Gly Phe Glu Ser Gly Leu Glu Val Arg Glu Ile
 20 25 30
 Phe Leu Lys Thr Arg Gly Leu Pro Ser Thr Leu Leu Ala His Ile Trp
 35 40 45
 Ala Leu Cys Asp Ser Lys Asp Cys Gly Lys Leu Ser Lys Asp His Phe
 50 55 60
 Ala Leu Ala Phe His Leu Ile Thr Gln Lys Leu Ile Lys Gly Ile Asp
 65 70 75 80
 Pro Pro Leu Val Leu Thr Pro Glu Lys Ile Ser Pro Ser Asn Arg Ala
 85 90 95

Ser Leu Gln Lys Val Thr Glu Leu Thr Arg Lys Pro Val Cys Ile Ile
 100 105 110
 Phe Lys Gly Thr Ile Leu Trp Arg Ile Thr Asp Ser Ile Trp Met Lys
 115 120 125
 His Asn Arg Lys Arg Ile Trp Leu Arg Ala
 130 135 138

<210> 1886

<211> 87

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(87)

<223> Xaa = any amino acid or nothing

<400> 1886

Asp His Gln Lys Xaa Lys Asn Ile Pro Cys Ser Trp Ile Gly Arg Ile
 1 5 10 15
 Asn Ile Val Lys Met Ser Ile Leu Pro Lys Ala Ile Tyr Arg Phe Ser
 20 25 30
 Ala Ile Pro Ile Lys Ile Pro Met Thr Phe Phe Thr Glu Ile Xaa Ser
 35 40 45
 Xaa Asn Val Tyr Arg Thr Thr Lys Thr Gln Glu Xaa Ala Lys Ala Ile
 50 55 60
 Leu Ser Lys Lys Glu Gln Asn Leu Glu Glu Ser His Tyr Leu Asp Phe
 65 70 75 80
 Lys Xaa Tyr Tyr Arg Ala Val
 85 87

<210> 1887

<211> 76

<212> PRT

<213> Homo sapiens

<400> 1887

Ser Ile Asp Cys Glu His Leu Ile Arg Arg Met Leu Val Leu Asp Pro
 1 5 10 15
 Ser Lys Arg Leu Thr Ile Ala Gln Ile Lys Glu His Lys Trp Met Leu
 20 25 30
 Ile Glu Val Pro Val Gln Arg Pro Val Leu Tyr Pro Gln Glu Gln Glu
 35 40 45
 Asn Glu Pro Ser Ile Gly Glu Phe Asn Glu Gln Val Leu Arg Leu Met
 50 55 60
 His Ser Leu Gly Ile Asp Gln Gln Lys Thr Ile Glu
 65 70 75 76

<210> 1888

<211> 57

<212> PRT

<213> Homo sapiens

<400> 1888

Ile Arg His Ile Pro Leu Lys Ile Arg Ser Val Val Ser His Leu Lys
 1 5 10 15

```

Cys Phe Tyr Lys Phe Ile Leu Thr Phe Phe Phe Ala Gly Cys Ser Gln
      20      25      30
Pro Leu Val Pro Arg Glu Asn Ile Thr Ala Trp Met Asn Ala Ile Gly
      35      40      45
Leu Ile Ile Thr Ala Leu Pro Val Ser
      50      55      57

```

```

<210> 1889
<211> 88
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(87)
<223> Xaa = any amino acid or nothing

```

```

<400> 1889
Ala Ser Arg Pro Trp Gly His Ser Tyr Pro Xaa Phe Asn Gln Gln Glu
  1      5      10      15
Val Asp Thr Leu Lys Arg Pro Ile Ala Ser Ser Glu Ile Xaa Met Met
      20      25      30
Ile Xaa Lys Phe Ala Thr Lys Lys Ser Pro Gly Pro Tyr Arg Phe Thr
      35      40      45
Ala Glu Phe Ser His Thr Phe Lys Glu Asp Leu Val Pro Ile Leu Trp
      50      55      60
Pro Leu Phe Pro Lys Ile Tyr Arg Glu Gly Thr Leu Pro His Ser Phe
      65      70      75      80
Tyr Glu Ala Ser Ile Thr Leu
      85      87

```

```

<210> 1890
<211> 622
<212> PRT
<213> Homo sapiens

```

```

<400> 1890
Pro Glu Pro Gly Ala Gly Arg Ala Ala Thr Pro Trp Gly Pro Leu Phe
  1      5      10      15
Trp Arg Gly Arg Gly Ser Gly Arg Cys Glu Lys Ala Ala Glu Ala Ala
      20      25      30
Leu Gly Asp Phe Leu Gly Leu His Arg Arg Thr Gln Gln Pro Ala Val
      35      40      45
Asp Arg Leu Leu Ser Asp Ala Ser Ala Gln Trp Arg Val Arg Gly His
      50      55      60
Gly Gly Val Arg Glu Ser Gly Arg Ala Pro Gln Gln Pro Gly Arg Arg
      65      70      75      80
Arg Gly Arg Arg Pro Arg Lys Arg Pro Arg Gly Arg Trp Arg Arg Glu
      85      90      95
Gly Cys Gly Ala Gly Gly Arg Gly Val Cys Val Ala Ala Trp Ser Gln
      100      105      110
Arg Ser Ile Ala Gly Asn Asn Asp Tyr Arg Leu Phe His Lys Met Ser
      115      120      125
Asn Ser His Pro Leu Arg Pro Phe Thr Ala Val Gly Glu Ile Asp His
      130      135      140
Val His Ile Leu Ser Glu His Ile Gly Ala Leu Leu Ile Gly Glu Glu
      145      150      155      160
Tyr Gly Asp Val Thr Phe Val Val Glu Lys Lys Arg Phe Pro Ala His
      165      170      175

```

```

Arg Val Ile Leu Ala Ala Arg Cys Gln Tyr Phe Arg Ala Leu Leu Tyr
      180      185      190
Gly Gly Met Arg Glu Ser Gln Pro Glu Ala Glu Ile Pro Leu Gln Asp
      195      200      205
Thr Thr Ala Glu Ala Phe Thr Met Leu Leu Lys Tyr Ile Tyr Thr Gly
      210      215      220
Arg Ala Thr Leu Thr Asp Glu Lys Glu Glu Val Leu Leu Asp Phe Leu
      225      230      235      240
Ser Leu Ala His Lys Tyr Gly Phe Pro Glu Leu Glu Asp Ser Thr Ser
      245      250      255
Glu Tyr Leu Cys Thr Ile Leu Asn Ile Gln Asn Val Cys Met Thr Phe
      260      265      270
Asp Val Ala Ser Leu Tyr Ser Leu Pro Lys Leu Thr Cys Met Cys Cys
      275      280      285
Met Phe Met Asp Arg Asn Ala Gln Glu Val Leu Ser Ser Glu Gly Phe
      290      295      300
Leu Ser Leu Ser Lys Thr Ala Leu Leu Asn Ile Val Leu Arg Asp Ser
      305      310      315      320
Phe Ala Ala Pro Glu Lys Asp Ile Phe Leu Ala Leu Leu Asn Trp Cys
      325      330      335
Lys His Asn Ser Lys Glu Asn His Ala Glu Ile Met Gln Ala Val Arg
      340      345      350
Leu Pro Leu Met Ser Leu Thr Glu Leu Leu Asn Val Val Arg Pro Ser
      355      360      365
Gly Leu Leu Ser Pro Asp Ala Ile Leu Asp Ala Ile Lys Val Arg Ser
      370      375      380
Glu Ser Arg Asp Met Asp Leu Asn Tyr Arg Gly Met Leu Ile Pro Glu
      385      390      395      400
Glu Asn Ile Ala Thr Met Lys Tyr Gly Ala Gln Val Val Lys Gly Glu
      405      410      415
Leu Lys Ser Ala Leu Leu Asp Gly Asp Thr Gln Asn Tyr Asp Leu Asp
      420      425      430
His Gly Phe Ser Arg His Pro Ile Asp Asp Asp Cys Arg Ser Gly Ile
      435      440      445
Glu Ile Lys Leu Gly Gln Pro Ser Ile Ile Asn His Val Arg Ile Leu
      450      455      460
Leu Trp Asp Arg Asp Ser Arg Ser Tyr Ser Tyr Phe Ile Glu Val Ser
      465      470      475      480
Met Asp Glu Leu Asp Trp Val Arg Val Ile Asp His Ser Gln Tyr Leu
      485      490      495
Cys Arg Ser Trp Gln Lys Leu Tyr Phe Pro Ala Arg Val Cys Arg Tyr
      500      505      510
Ile Arg Ile Val Gly Thr His Asn Thr Val Asn Lys Ile Phe His Ile
      515      520      525
Val Ala Phe Glu Cys Met Phe Thr Asn Lys Thr Phe Thr Leu Glu Lys
      530      535      540
Gly Leu Ile Val Pro Met Glu Asn Val Ala Thr Ile Ala Asp Cys Ala
      545      550      555      560
Ser Val Ile Glu Gly Val Ser Arg Ser Arg Asn Ala Leu Leu Asn Gly
      565      570      575
Asp Thr Lys Asn Tyr Asp Trp Asp Ser Gly Tyr Thr Cys His Gln Leu
      580      585      590
Gly Ser Gly Ala Ile Val Val Gln Leu Ala Gln Pro Tyr Met Ile Gly
      595      600      605
Ser Ile Arg Val Leu Leu Trp Asp Cys Asp Asp Arg Ser Tyr
      610      615      620      622

```

<210> 1891

<211> 166

<212> PRT

<213> Homo sapiens

<400> 1891

```

Gly Thr Leu Gly Tyr Pro Asn Gly Ala Arg Gly Gln Pro Gln Asp Asn
 1           5           10           15
Phe Phe Ala His Gln Val Ser His His Pro Pro Ile Ser Ala Cys His
      20           25           30
Ala Glu Ser Glu Asn Phe Ala Phe Trp Gln Asp Met Lys Trp Lys Asn
      35           40           45
Lys Phe Trp Gly Lys Ser Leu Glu Ile Val Pro Val Gly Thr Val Asn
      50           55           60
Val Ser Leu Pro Arg Phe Gly Asp His Phe Glu Trp Asn Lys Val Thr
      65           70           75
Ser Cys Ile His Asn Val Leu Ser Gly Gln Arg Trp Ile Glu His Tyr
      85           90           95
Gly Glu Val Leu Ile Arg Asn Thr Gln Asp Ser Ser Cys His Cys Lys
      100          105          110
Ile Thr Phe Cys Lys Ala Lys Tyr Trp Ser Ser Asn Val His Glu Val
      115          120          125
Gln Gly Ala Val Leu Ser Arg Ser Gly Arg Val Leu His Arg Leu Phe
      130          135          140
Gly Lys Trp His Glu Gly Leu Tyr Arg Gly Pro Thr Pro Gly Gly Gln
      145          150          155          160
Cys Ile Trp Lys Pro
      165

```

<210> 1892

<211> 130

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(130)

<223> Xaa = 'any amino acid or nothing'

<400> 1892

```

Ser Val Asp Ala Tyr Val Cys Asn Asp Ile Val Phe Ser Tyr Arg Thr
 1           5           10           15
Thr Ile Thr Leu Leu Glu Gly Ala Xaa Leu Thr His Arg Tyr Val Ala
      20           25           30
Gln Asp Pro Lys Gln Gly Gln Leu Arg Ser Leu His Leu Thr Cys Asp
      35           40           45
Ser Ala Pro Ala Gly Ser Gln Gly Thr Trp Ser Thr Ser Cys Arg Ile
      50           55           60
Asn His Leu Ile Phe Arg Gly Gly Ala Gln Ile Thr Phe Leu Ala Thr
      65           70           75
Phe Asp Asp Ser Pro Lys Ala Val Leu Gly Asp Arg Leu Leu Leu Thr
      85           90           95
Ala Asn Val Ser Ser Glu Asn Asn Thr Pro Arg Thr Ser Lys Thr Thr
      100          105          110
Phe Gln Leu Glu Leu Ser Val Lys Asp Ala Val Tyr Thr Val Val Ser
      115          120          125
Ser His
      130

```

<210> 1893

<211> 224

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(222)

<223> Xaa = any amino acid or nothing

<400> 1893

```

Thr Ile Ser Tyr Pro Gln Cys Leu Thr Gln Met Tyr Phe Leu Ile Ser
 1           5           10           15
Phe Ala Asn Val Asp Thr Phe Leu Leu Pro Ile Met Ala Leu Asp His
          20           25           30
Tyr Val Ala Ile Cys Ser Ala Leu Gln Xaa Cys Ser Ile Ile Thr Pro
          35           40           45
Glu Leu Cys Gln Gly Leu Pro Val Leu Ala Xaa Ala Gly Ser Ser Leu
 50           55           60
Ile Ser Pro Val His Thr Val Ile Met Ser Arg Leu Ala Phe Cys Ser
 65           70           75           80
Ser Ala Gln Ile Ser His Phe Tyr Arg Asp Ala Tyr Leu Leu Met Lys
          85           90           95
Ile Ala Cys Ser His Thr Xaa Asn Gln His Val Phe Leu Gly Ala Val
          100          105          110
Val Leu Phe Leu Ala Pro Cys Ala Leu Ile Leu Val Ser Tyr Ile Arg
          115          120          125
Ile Ala Ala Ala Ile Leu Arg Ile Pro Ser Pro Thr Arg Arg Arg Lys
          130          135          140
Ala Cys Ser Ile Cys Ser Ser His Leu Ser Leu Val Thr Leu Phe Tyr
145          150          155          160
Gly Thr Val Leu Gly Ile Cys Ile Xaa Pro Pro Asp Ser Phe Ser Ala
          165          170          175
Gln Asp Ala Ile Ala Thr Ile Met Tyr Thr Val Val Thr Ser Met Leu
          180          185          190
Asn Pro Phe Ile Tyr Ser Leu Met Asn Lys Glu Val Gln Glu Ala Val
          195          200          205
Arg Arg Leu Phe Ser Arg Gly Ser His Ser Ser Trp Cys Trp
210          215          220          222

```

<210> 1894

<211> 179

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(178)

<223> Xaa = any amino acid or nothing

<400> 1894

```

Leu Leu Tyr Ala Gln Ala Gly Val Gln Xaa Leu Asn Leu Ser Ser Leu
 1           5           10           15
Gln Pro Gln Pro Ala Gly Leu Lys Gln Ser Ser His Pro Ser Leu Pro
          20           25           30
Ser Ser Trp Asp Tyr Arg Tyr Ser Thr Pro His Pro Ala Asn Phe Phe
          35           40           45
Val Glu Met Glu Phe His His Val Ala Gln Ala Gly Leu Glu Leu Leu
 50           55           60
Gly Ser Gly Asp Leu Pro Thr Ser Thr Ser His Ser Ala Gly Ile Thr
 65           70           75           80
Gly Val Ser His His Ala Pro Pro Arg Leu Ile Ser Ser Glu Gly Ser
          85           90           95
Leu Leu Gly His Leu Leu Cys Leu Pro Met Val Phe Pro Leu Leu Cys
          100          105          110
Val Phe Val Leu Ile Ser Ser Ser Leu Ala Gly Glu Glu Ala Ala Gly
          115          120          125

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Leu Arg Val Gln Lys Leu Trp Pro Ala Val Val Leu Ser His Leu Pro
 130 135 140
 Val Cys Trp Phe His Cys Ser Gly Ile Trp Ser Glu Val Ile Glu Leu
 145 150 155 160
 Lys Val Gly Arg Glu Gly His Val Leu Pro Trp Gln Ala His Val Val
 165 170 175
 Glu Phe
 178

<210> 1895
 <211> 137
 <212> PRT
 <213> Homo sapiens

<400> 1895
 His Pro Leu Gly Leu Gly Leu Val Pro Ser Glu Ile Phe Ser Pro Gln
 1 5 10 15
 Asp Lys Lys Ala Ala Asp Gly Ser Ile Leu Ala Pro Ala Arg Gly Glu
 20 25 30
 Asp Leu Glu Ala Gly Leu Lys Gly Ser Phe Met Asp Gly Arg Leu Gln
 35 40 45
 Ala Ser Val Ser Val Phe Arg Ile Gln Arg Val Gly Ser Ala Met Gln
 50 55 60
 Asp Thr Ala Ser Ala Met Pro Cys Leu Pro Tyr Tyr Pro Thr Ser His
 65 70 75 80
 Cys Phe Met Ala Gly Gly Lys Ser Arg Ser Gln Gly Trp Glu Leu Glu
 85 90 95
 Leu Ser Gly Glu Pro Ala Pro Gly Trp Gln Val Leu Ala Gly Tyr Thr
 100 105 110
 Tyr Thr Gln Ala Arg Tyr Leu Arg Asp Ala Ser Glu Ala Asn Val Gly
 115 120 125
 Gln Pro Leu Arg Pro Val Asp Pro Arg
 130 135 137

<210> 1896
 <211> 118
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(115)
 <223> Xaa = any amino acid or nothing

<400> 1896
 Phe Phe Gln Val Phe Ile Phe Leu Phe Leu Ile Phe Phe Lys Thr Glu
 1 5 10 15
 Phe His Ser Cys Cys Pro Gly Ala Val Gln Trp His Asp Leu Asp Ser
 20 25 30
 Leu Gln Pro Pro Pro Arg Phe Lys Gly Phe Ser Cys Leu Ser Leu
 35 40 45
 Pro Ser Ser Trp Asp Tyr Arg His Ala Pro Ala His Pro Ala Asn Phe
 50 55 60
 Val Phe Leu Val Glu Thr Gly Phe Leu His Val Gly Gln Ala Ser Leu
 65 70 75 80
 Glu Leu Pro Thr Ser Gly Asp Thr Pro Ala Ser Ala Ser Gln Ser Ala
 85 90 95
 Gly Ile Thr Gly Val Ser His His Ala Xaa Pro Arg Ala Ser Gly Arg
 100 105 110

Arg Cys Trp
115

<210> 1897
<211> 1021
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(1008)
<223> Xaa = any amino acid or nothing

<400> 1897
Ala Gly Pro Asp Gly Leu Ala Ala Pro Ala Ser Cys Gln Gly Ala Arg
1 5 10 15
Gly Gln Thr Arg Val Pro Gly Ala Phe Ser Trp Leu Ala Pro Gly Ser
20 25 30
His His Ala Ser Glu Gly Leu Ala Pro Gly Val Pro Pro Ala Gly Gly
35 40 45
Val Ser Ala Gln Glu Leu Thr Ala Pro Pro Gln Glu Gly Trp Gly Leu
50 55 60
Gly Ala Pro Pro Ala Ala Pro Arg Pro Glu Ser Asp Glu Lys Arg Ala
65 70 75 80
Gly Ser Asp Ala Val Arg Ser Phe Ser Arg Gly Ala Arg Asp Ser Leu
85 90 95
Gly Gln Arg Arg Leu Gly Gly Thr Arg Gly Ala Gly Pro Ala Gly Lys
100 105 110
Gly Ala Gln Arg Thr Met Gly Pro Ala Ser Gly Phe His Ser Phe Pro
115 120 125
Pro Arg Pro His Gln Glu Pro Ser Pro Arg Ser Ser Cys Trp Gln His
130 135 140
Leu Leu Trp His Cys Pro Trp Pro Gln Pro Ser Arg Leu Pro Arg Leu
145 150 155 160
Thr Pro Ala Gln Leu Leu Gln Gly Pro Gly Val Leu Ala Ala Pro Pro
165 170 175
Gly Pro Xaa His Val Pro Gly Phe Leu Ala Gln Ser Pro Trp Pro Leu
180 185 190
Pro Ser Gly Pro Arg Ser Pro Xaa Asp Pro Leu His Gln Gly Ala Leu
195 200 205
Val Pro Leu Pro Gln Gly Gly Ser Pro His Thr Ala Pro His Cys Leu
210 215 220
Pro Ser Val Leu Ser Pro Ala Ile Gln Gln Pro Leu Leu Pro Thr Ala
225 230 235 240
Ser Thr Ser Ser Arg Ser Pro Pro Ala Ser Thr Met Ala Pro Ile Pro
245 250 255
Ser Ala Leu Ala Val Trp Glu Pro Ala Gly Ser Ser Pro Gln Leu Ser
260 265 270
Ser Ala Pro Ala Asp Ser Ser Pro Leu Pro Ala Leu Pro Lys Val Leu
275 280 285
Pro Pro Trp Thr Gln Lys Pro Leu Leu Gly Cys Leu Cys Gln Ser Pro
290 295 300
Leu Pro Leu Leu Ser Pro Pro Asp Gln Ile Arg Cys Pro Pro Ala Cys
305 310 315 320
Ser Pro Ala Ala Ala Ser Ser Phe Ser Phe Glu Ser Gln Pro Cys Pro
325 330 335
Ser Ala Pro Ser Lys Ala Ser Pro Ala Pro Ala Ala Leu Ile Val Gly
340 345 350
Pro His His Pro Pro Xaa Ser Gln Gln Pro Gln Ser Gln Ser Val His
355 360 365
Pro His Gly Pro Gly Gly Pro Gln Pro Pro Leu Ala Ala Ser Ser Leu
370 375 380

Phe Trp Met Phe Cys Gln Pro Pro Pro Pro His Pro Gln Phe Leu Trp
 385 390 395 400
 His Arg Pro Leu Pro Val Thr Gly Lys Ala Leu Ala Ser Pro Leu Cys
 405 410 415
 Phe Arg Pro Ala Pro Gly Ser Leu Arg Gln Thr Pro Leu Pro Pro Gln
 420 425 430
 Phe His Ile Pro Arg Pro Gly Leu Ser Ala Pro Pro Pro Ala Ser
 435 440 445
 Gly Thr Ser Asp Ser Ser Asp Ser Arg Ser Pro Ser Ala Ser Ala Ala
 450 455 460
 Arg Val Trp Pro Pro Ala Ser Pro Pro Pro Pro Ala Ala Arg His Arg
 465 470 475 480
 Pro His Pro Pro Glu Tyr Phe Leu Ser Pro Cys Pro Phe Ser Cys Gly
 485 490 495
 Phe Pro Arg Leu Leu Gly Arg Pro Arg Arg Pro Gln Ala Leu Gln Thr
 500 505 510
 Pro Arg Ala Trp Asp Leu Pro Pro Gly Ser Ser Pro Ala Pro Leu Cys
 515 520 525
 Ser Gly Pro Glu Leu Pro Xaa Ala Pro Pro Pro Leu Pro Pro Phe Pro
 530 535 540
 Arg Val Ala Xaa Leu Gly Ser Gly His Pro Pro Ser Ala Gln Val Pro
 545 550 555 560
 Gly Leu Trp Xaa Arg Cys Val Xaa Gly His Pro Ile Pro Arg Pro Val
 565 570 575
 Gly His Ser Xaa Ser Gly Pro Pro His Ser Pro Pro Leu Xaa Ala Pro
 580 585 590
 Pro Gln Ala Trp Pro Leu Glu Leu Pro Pro Ser Arg Gln Cys Leu Gln
 595 600 605
 Pro Leu His Leu Arg Ala Ala Gln Pro Leu Asp Pro Cys Cys Ser Leu
 610 615 620
 Ser Pro Pro Gly Pro Pro Leu Pro Val Pro Ala Leu Pro Ser Trp Pro
 625 630 635 640
 Gly Arg Pro Xaa Ser Pro Ser Pro Ala Ser Ser Gln Pro Pro Tyr His
 645 650 655
 Ala Gly Leu Pro Gly Pro Gln Ser Ser Pro Leu Pro Pro Gly Leu Pro
 660 665 670
 Gln Leu Pro Ser Leu Arg Ser Gly Ser Gln Gln Pro Leu Leu Phe Phe
 675 680 685
 Gln Cys Pro Gly Pro Gly Ala Val Trp Gly Lys Gly Ser Pro Gln Pro
 690 695 700
 Leu Ser Pro His Pro Pro Pro Ala Arg Thr Gln Thr Phe Pro Val
 705 710 715 720
 Ala Ser Arg Ser Leu Ser Pro Gly Thr Ala Pro Tyr Ser Val Cys Leu
 725 730 735
 Thr Pro Ser Arg Ser Ala Ser Ser Leu Pro Glu Val Val Leu Ala Ser
 740 745 750
 Ser Leu Pro Lys Ile Pro Gln Ser Ser Gly Ser Pro Leu Gly Pro Thr
 755 760 765
 Ser Pro Met Pro Xaa Cys Phe His Arg Pro Ser Pro Pro Leu Pro Leu
 770 775 780
 Ser Ser Pro Phe Pro Ala Leu Arg Pro Gln Ala Pro Gln Phe Pro Leu
 785 790 795 800
 His Leu Pro Pro Xaa Pro Pro Ala Pro Ser Pro Gly Cys Pro Leu Pro
 805 810 815
 Pro Leu Ala Gln Gln His Gln Pro Ser Pro Pro Ser Pro His Ala Arg
 820 825 830
 Ser Thr Leu Thr Pro Pro Leu Trp Pro Ser Leu Ala Leu Leu Pro Xaa
 835 840 845
 Pro Leu Pro Pro Pro Pro Pro Val Pro Ser Phe Ser Ala Ser Leu Leu
 850 855 860
 Cys Ser Leu Pro Ala His Gly Thr Pro Ala Ser Pro Gly Leu Gly Arg
 865 870 875 880
 Ser Cys Leu Gly Lys Pro Gln Thr Leu Pro Trp Ile Ser Phe Trp Pro
 885 890 895

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Pro Ser Gly Arg Leu Ala Pro Gly Thr Trp Gln Pro Trp Pro Val Ser
      900      905      910
Pro Ala Pro Leu Ser Cys Leu Ser Ala Trp Asp Pro Trp Glu Leu Pro
      915      920      925
Ser Pro Gln Pro Gln Val Cys Ser Thr Ala Glu Leu Pro Thr Ser Cys
      930      935      940
Leu Leu Ser Ser Pro Gly Pro Pro Ala Phe Gln Pro Pro Arg Phe Gly
      945      950      955      960
Cys Leu Xaa Gly Pro Pro Gly Pro Pro Gly Leu Pro Pro Leu Gln Ser
      965      970      975
Ser Leu Ser Phe Pro Pro Pro Pro Pro Val Pro Gln Pro Pro Ala
      980      985      990
Pro Pro Ala Leu Gln Trp Gly Leu His Leu Pro Gly Gly Arg Thr Lys
      995      1000      1005      1008

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<210> 1898
<211> 510
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(508)
<223> Xaa = any amino acid or nothing

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<400> 1898
Arg Ile His Arg Glu Glu Asp Phe Gln Phe Ile Leu Lys Gly Ile Ala
 1      5      10      15
Arg Leu Leu Ser Asn Pro Leu Leu Gln Thr Tyr Leu Pro Asn Ser Thr
 20      25      30
Lys Lys Ile Gln Phe His Gln Glu Leu Leu Val Leu Phe Trp Lys Leu
 35      40      45
Cys Asp Phe Asn Lys Val Gly Gln Pro Arg Gly Ala Leu Gln Gly Asp
 50      55      60
Gly Glu Gln Leu Pro Gln Xaa Pro Gly Gly Arg Asp Ser Val Arg Leu
 65      70      75      80
Arg Gly Val Gly Gln Ser Cys Pro Ser Leu Glu Leu Ser Pro Leu Gly
 85      90      95
Pro Ser Pro His Pro Xaa Lys Phe Leu Phe Phe Val Leu Lys Ser Ser
 100      105      110
Asp Val Leu Asp Ile Leu Val Pro Ile Leu Phe Phe Leu Asn Asp Ala
 115      120      125
Arg Ala Asp Gln Ser Arg Val Gly Leu Met His Ile Gly Val Phe Ile
 130      135      140
Leu Leu Leu Leu Ser Gly Glu Cys Asn Phe Gly Val Arg Leu Asn Lys
 145      150      155      160
Pro Tyr Ser Ile Arg Val Pro Met Asp Ile Pro Val Phe Thr Gly Thr
 165      170      175
His Ala Asp Leu Leu Ile Val Val Phe His Lys Ile Ile Thr Ser Gly
 180      185      190
His Gln Arg Leu Gln Pro Leu Phe Asp Cys Leu Leu Thr Ile Val Val
 195      200      205
Asn Val Ser Pro Tyr Leu Lys Ser Leu Ser Met Val Thr Ala Asn Lys
 210      215      220
Leu Leu His Leu Leu Glu Ala Phe Ser Thr Thr Trp Phe Leu Phe Ser
 225      230      235      240
Ala Ala Gln Asn His His Leu Val Phe Phe Leu Leu Glu Val Phe Asn
 245      250      255
Asn Ile Ile Gln Tyr Gln Phe Asp Gly Asn Ser Asn Leu Val Tyr Ala
 260      265      270

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Ile Ile Arg Lys Arg Ser Ile Phe His Gln Leu Ala Asn Leu Pro Thr
    275          280          285
Asp Pro Pro Thr Ile His Lys Ala Leu Gln Arg Arg Arg Thr Pro
    290          295          300
Glu Pro Leu Ser Arg Thr Gly Ser Gln Gly Gly Ala Pro Pro Trp Arg
    305          310          315          320
Ala Pro Ala Pro Leu Pro Leu Gln Ser Gln Ala Pro Ser Arg Pro Val
          325          330          335
Trp Trp Leu Leu Gln Ala Leu Thr Ser Xaa Pro Arg Ser Pro Arg Cys
          340          345          350
Gln Arg Met Ala Pro Cys Gly Pro Trp Asn Leu Ser Pro Ser Arg Ala
    355          360          365
Trp Arg Met Ala Ala Arg Leu Arg Gly Ser Pro Ala Arg His Gly Gly
    370          375          380
Ser Ser Gly Asp Arg Pro His Ser Ser Ala Ser Gly Gln Trp Ser Pro
    385          390          395          400
Thr Pro Glu Trp Val Leu Ser Trp Lys Ser Lys Leu Pro Leu Gln Thr
          405          410          415
Ile Met Arg Leu Leu Gln Val Leu Val Pro Gln Val Glu Lys Ile Cys
          420          425          430
Ile Asp Lys Gly Leu Thr Asp Glu Ser Glu Ile Leu Arg Phe Leu Gln
    435          440          445
His Gly Thr Leu Val Gly Leu Leu Pro Val Pro His Pro Ile Leu Ile
    450          455          460
Arg Lys Tyr Gln Ala Asn Ser Gly Thr Ala Met Trp Phe Arg Thr Tyr
    465          470          475          480
Met Trp Gly Val Ile Tyr Leu Arg Asn Val Asp Pro Pro Val Trp Tyr
          485          490          495
Asp Thr Asp Val Lys Leu Phe Glu Ile Gln Arg Val
          500          505          508

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<210> 1899
<211> 180
<212> PRT
<213> Homo sapiens

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<400> 1899
Leu Pro Trp Gln Arg Leu Gly Val Leu Leu Ser Arg Gly Lys Met Ala
  1          5          10          15
Val Thr Gly Trp Leu Glu Ser Leu Arg Thr Ala Gln Lys Thr Ala Leu
    20          25          30
Leu Gln Asp Gly Arg Arg Lys Val His Tyr Leu Phe Pro Asp Gly Lys
    35          40          45
Glu Met Ala Glu Glu Tyr Asp Glu Lys Thr Ser Glu Leu Leu Val Arg
    50          55          60
Lys Trp Arg Val Lys Ser Ala Leu Gly Ala Met Gly Gln Trp Gln Leu
    65          70          75          80
Glu Val Gly Asp Pro Ala Pro Leu Gly Ala Gly Asn Leu Gly Pro Glu
          85          90          95
Leu Ile Lys Glu Ser Asn Ala Asn Pro Ile Phe Met Arg Lys Asp Thr
    100          105          110
Lys Met Ser Phe Gln Trp Arg Ile Arg Asn Leu Pro Tyr Pro Lys Asp
    115          120          125
Val Tyr Ser Val Ser Val Asp Gln Lys Glu Arg Cys Ile Ile Val Arg
    130          135          140
Thr Thr Asn Lys Lys Tyr Tyr Lys Lys Phe Ser Ile Pro Asp Leu Asp
    145          150          155          160
Arg His Gln Leu Pro Leu Asp Asp Ala Leu Leu Ser Phe Ala Thr Pro
          165          170          175
Thr Ala Pro
    179

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<210> 1900
 <211> 666
 <212> PRT
 <213> Homo sapiens

<400> 1900
 Ile Arg His Thr Gly Ser Asp Ile Ala Gly Val Cys Gly Trp Leu Leu
 1 5 10 15
 Leu Ser Gly Pro Cys Gly Val Gly Leu Asp Leu Asp Ser Arg Leu Leu
 20 25 30
 Gly Ala Ser Ala Met Arg Arg Ser Glu Val Leu Ala Glu Glu Ser Ile
 35 40 45
 Val Cys Leu Gln Lys Ala Leu Asn His Leu Arg Glu Ile Trp Glu Leu
 50 55 60
 Ile Gly Ile Pro Glu Asp Gln Arg Leu Gln Arg Thr Glu Val Val Lys
 65 70 75 80
 Lys His Ile Lys Glu Leu Leu Asp Met Met Ile Ala Glu Glu Glu Ser
 85 90 95
 Leu Lys Glu Arg Leu Ile Lys Ser Ile Ser Val Cys Gln Lys Glu Leu
 100 105 110
 Asn Thr Leu Cys Ser Glu Leu His Val Glu Pro Phe Gln Glu Glu Gly
 115 120 125
 Glu Thr Thr Ile Leu Gln Leu Glu Lys Asp Leu Arg Thr Gln Val Glu
 130 135 140
 Leu Met Arg Lys Gln Lys Lys Glu Arg Lys Gln Glu Leu Lys Leu Leu
 145 150 155 160
 Gln Glu Gln Asp Gln Glu Leu Cys Glu Ile Leu Cys Met Pro His Tyr
 165 170 175
 Asp Ile Asp Ser Ala Ser Val Pro Ser Leu Glu Glu Leu Asn Gln Phe
 180 185 190
 Arg Gln His Val Thr Thr Leu Arg Glu Thr Lys Ala Ser Arg Arg Glu
 195 200 205
 Glu Phe Val Ser Ser Ile Lys Arg Gln Ile Ile Leu Cys Met Glu Glu
 210 215 220
 Leu Asp His Thr Pro Asp Thr Ser Phe Glu Arg Asp Val Val Cys Glu
 225 230 235 240
 Asp Glu Asp Ala Phe Cys Leu Ser Leu Glu Asn Ile Ala Thr Leu Gln
 245 250 255
 Lys Leu Leu Arg Gln Leu Glu Met Gln Lys Ser Gln Asn Glu Ala Val
 260 265 270
 Cys Glu Gly Leu Arg Thr Gln Ile Arg Glu Leu Trp Asp Arg Leu Gln
 275 280 285
 Ile Pro Glu Glu Glu Arg Glu Ala Val Ala Thr Ile Met Ser Gly Ser
 290 295 300
 Lys Ala Lys Val Arg Lys Ala Leu Gln Leu Glu Val Asp Arg Leu Glu
 305 310 315 320
 Glu Leu Glu Lys Cys Lys Thr Met Lys Lys Val Ile Glu Ala Ile Arg
 325 330 335
 Val Glu Leu Val Gln Tyr Trp Asp Gln Cys Phe Tyr Ser Gln Glu Gln
 340 345 350
 Arg Gln Ala Phe Ala Pro Phe Cys Ala Glu Asp Tyr Thr Glu Ser Leu
 355 360 365
 Leu Gln Leu His Asp Ala Glu Ile Val Arg Leu Lys Asn Tyr Tyr Glu
 370 375 380
 Val His Lys Glu Leu Phe Glu Gly Val Gln Lys Trp Glu Glu Thr Trp
 385 390 395 400
 Arg Leu Phe Leu Glu Phe Glu Arg Lys Ala Ser Asp Pro Asn Arg Phe
 405 410 415
 Thr Asn Arg Gly Gly Asn Leu Leu Lys Glu Glu Lys Gln Arg Ala Lys
 420 425 430

Leu Gln Lys Met Leu Pro Lys Leu Glu Glu Glu Leu Lys Ala Arg Ile
 435 440 445
 Glu Leu Trp Glu Gln Glu His Ser Lys Ala Phe Met Val Asn Gly Gln
 450 455 460
 Lys Phe Met Glu Tyr Val Ala Glu Gln Trp Glu Met His Arg Leu Glu
 465 470 475 480
 Lys Glu Arg Ala Lys Gln Glu Arg Gln Leu Lys Asn Lys Lys Gln Thr
 485 490 495
 Glu Thr Glu Met Leu Tyr Gly Ser Ala Pro Arg Thr Pro Ser Lys Arg
 500 505 510
 Arg Gly Leu Ala Pro Asn Thr Pro Gly Lys Ala Arg Lys Leu Asn Thr
 515 520 525
 Thr Thr Met Ser Asn Ala Thr Ala Asn Ser Ser Ile Arg Pro Ile Phe
 530 535 540
 Gly Gly Thr Val Tyr His Ser Pro Val Ser Arg Leu Pro Pro Ser Gly
 545 550 555 560
 Ser Lys Pro Val Ala Ala Ser Thr Cys Ser Gly Lys Lys Thr Pro Arg
 565 570 575
 Thr Gly Arg His Gly Ala Asn Lys Glu Asn Leu Glu Leu Asn Gly Ser
 580 585 590
 Ile Leu Ser Gly Gly Tyr Pro Gly Ser Ala Pro Leu Gln Arg Asn Phe
 595 600 605
 Ser Ile Asn Ser Val Ala Ser Thr Tyr Ser Glu Phe Ala Asp Pro Ser
 610 615 620
 Leu Ser Asp Ser Ser Thr Val Gly Leu Gln Arg Glu Leu Ser Lys Ala
 625 630 635 640
 Ser Lys Ser Asp Ala Thr Ser Gly Ile Leu Asn Ser Thr Asn Ile Gln
 645 650 655
 Ser
 657

<210> 1901
 <211> 338
 <212> PRT
 <213> Homo sapiens

<400> 1901
 Ala Trp His Glu Gly Leu Val Ser Ser Pro Ala Ile Gly Ala Tyr Leu
 1 5 10 15
 Ser Ala Ser Tyr Gly Asp Ser Leu Val Val Ala Thr Val Val
 20 25 30
 Ala Leu Leu Asp Ile Cys Phe Ile Leu Val Ala Val Pro Glu Ser Leu
 35 40 45
 Pro Glu Lys Met Arg Pro Val Ser Trp Gly Ala Gln Ile Ser Trp Lys
 50 55 60
 Gln Ala Asp Pro Phe Ala Ser Leu Lys Lys Val Gly Lys Asp Ser Thr
 65 70 75 80
 Val Leu Leu Ile Cys Ile Thr Val Cys Leu Ser Tyr Leu Pro Glu Ala
 85 90 95
 Gly Gln Tyr Ser Ser Phe Phe Leu Tyr Leu Arg Gln Val Ile Gly Phe
 100 105 110
 Gly Thr Val Lys Ile Ala Ala Phe Ile Ala Met Val Gly Ile Leu Ser
 115 120 125
 Ile Val Ala Gln Thr Ala Phe Leu Ser Ile Leu Met Arg Ser Leu Gly
 130 135 140
 Asn Lys Asn Thr Val Leu Leu Gly Leu Gly Phe Gln Met Leu Gln Leu
 145 150 155 160
 Ala Trp Tyr Gly Phe Gly Ser Gln Ala Trp Met Met Trp Ala Ala Gly
 165 170 175
 Thr Val Ala Ala Met Ser Ser Ile Thr Phe Pro Ala Ile Ser Ala Leu
 180 185 190

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Val Ser Arg Asn Ala Glu Ser Asp Gln Gln Gly Val Ala Gln Gly Ile
    195                200                205
Ile Thr Gly Ile Arg Gly Leu Cys Asn Gly Leu Gly Pro Ala Leu Tyr
    210                215                220
Gly Phe Ile Phe Tyr Met Phe His Val Glu Leu Thr Glu Leu Gly Pro
    225                230                235                240
Lys Leu Asn Ser Asn Asn Val Pro Leu Gln Gly Ala Val Ile Pro Gly
    245                250                255
Pro Pro Phe Leu Phe Gly Ala Cys Ile Val Leu Met Ser Phe Leu Val
    260                265                270
Ala Leu Phe Ile Pro Glu Tyr Ser Lys Ala Ser Gly Val Gln Lys His
    275                280                285
Ser Asn Ser Ser Ser Gly Ser Leu Thr Asn Thr Pro Glu Arg Gly Ser
    290                295                300
Asp Glu Asp Ile Glu Pro Leu Leu Gln Asp Ser Ser Ile Trp Glu Leu
    305                310                315                320
Ser Ser Phe Glu Glu Pro Gly Asn Gln Cys Thr Glu Leu
    325                330                333

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<210> 1902
 <211> 4767
 <212> PRT
 <213> Homo sapiens

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<400> 1902
Ala Arg Pro Pro Pro Ala Pro Gly Ser Arg Gln Gln Lys Gln Lys Ala
  1          5          10          15
Ala Pro Gly Ala Ala Ala Ala Ala Glu Leu Arg Gly Ala Arg Glu Pro
    20          25          30
Ala Pro Ala Arg Arg Arg Gly Thr Met Ala Asp Gly Gly Glu Gly Glu
    35          40          45
Asp Glu Ile Gln Phe Leu Arg Thr Asp Asp Glu Val Val Leu Gln Cys
    50          55          60
Thr Ala Thr Ile His Lys Glu Gln Gln Lys Leu Cys Leu Ala Ala Glu
    65          70          75          80
Gly Phe Gly Asn Arg Leu Cys Phe Leu Glu Ser Thr Ser Asn Ser Lys
    85          90          95
Asn Val Pro Pro Asp Leu Ser Ile Cys Thr Phe Val Leu Glu Gln Ser
    100         105         110
Leu Ser Val Arg Ala Leu Gln Glu Met Leu Ala Asn Thr Val Glu Lys
    115         120         125
Ser Glu Gly Gln Val Asp Val Glu Lys Trp Lys Phe Met Met Lys Thr
    130         135         140
Ala Gln Gly Gly Gly His Arg Thr Leu Leu Tyr Gly His Ala Ile Leu
    145         150         155         160
Leu Arg His Ser Tyr Ser Gly Met Tyr Leu Cys Cys Leu Ser Thr Ser
    165         170         175
Arg Ser Ser Thr Asp Lys Leu Ala Phe Asp Val Gly Leu Gln Glu Asp
    180         185         190
Thr Thr Gly Glu Ala Cys Trp Trp Thr Ile His Pro Ala Ser Lys Gln
    195         200         205
Arg Ser Glu Gly Glu Lys Val Arg Val Gly Asp Asp Leu Ile Leu Val
    210         215         220
Ser Val Ser Ser Glu Arg Tyr Leu His Leu Ser Tyr Gly Asn Gly Ser
    225         230         235         240
Leu His Val Asp Ala Ala Phe Gln Gln Thr Leu Trp Ser Val Ala Pro
    245         250         255
Ile Ser Ser Gly Ser Glu Ala Ala Gln Gly Tyr Leu Ile Gly Gly Asp
    260         265         270
Val Leu Arg Leu Leu His Gly His Met Asp Glu Cys Leu Thr Val Pro
    275         280         285

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Ser Gly Glu His Gly Glu Glu Gln Arg Arg Thr Val His Tyr Glu Gly
 290 295 300
 Gly Ala Val Ser Val His Ala Arg Ser Leu Trp Arg Leu Glu Thr Leu
 305 310 315 320
 Arg Val Ala Trp Ser Gly Ser His Ile Arg Trp Gly Gln Pro Phe Arg
 325 330 335
 Leu Arg His Val Thr Thr Gly Lys Tyr Leu Ser Leu Met Glu Asp Lys
 340 345 350
 Asn Leu Leu Leu Met Asp Lys Glu Lys Ala Asp Val Lys Ser Thr Ala
 355 360 365
 Phe Thr Phe Arg Ser Ser Lys Glu Lys Leu Asp Val Gly Val Arg Lys
 370 375 380
 Glu Val Asp Gly Met Gly Thr Ser Glu Ile Lys Tyr Gly Asp Ser Val
 385 390 395 400
 Cys Tyr Ile Gln His Val Asp Thr Gly Leu Trp Leu Thr Tyr Gln Ser
 405 410 415
 Val Asp Val Lys Ser Val Arg Met Gly Ser Ile Gln Arg Lys Ala Ile
 420 425 430
 Met His His Glu Gly His Met Asp Asp Gly Ile Ser Leu Ser Arg Ser
 435 440 445
 Gln His Glu Glu Ser Arg Thr Ala Arg Val Ile Arg Ser Thr Val Phe
 450 455 460
 Leu Phe Asn Arg Phe Ile Arg Gly Leu Asp Ala Leu Ser Lys Lys Ala
 465 470 475 480
 Lys Ala Ser Thr Val Asp Leu Pro Ile Glu Ser Val Ser Leu Ser Leu
 485 490 495
 Gln Asp Leu Ile Gly Tyr Phe His Pro Pro Asp Glu His Leu Glu His
 500 505 510
 Glu Asp Lys Gln Asn Arg Leu Arg Ala Leu Lys Asn Arg Gln Asn Leu
 515 520 525
 Phe Gln Glu Glu Gly Met Ile Asn Leu Val Leu Glu Cys Ile Asp Arg
 530 535 540
 Leu His Val Tyr Ser Ser Ala Ala His Phe Ala Asp Val Ala Gly Arg
 545 550 555 560
 Glu Ala Gly Glu Ser Trp Lys Ser Ile Leu Asn Ser Leu Tyr Glu Leu
 565 570 575
 Leu Ala Ala Leu Ile Arg Gly Asn Arg Lys Asn Cys Ala Gln Phe Ser
 580 585 590
 Gly Ser Leu Asp Trp Leu Ile Ser Arg Leu Glu Arg Leu Glu Ala Ser
 595 600 605
 Ser Gly Ile Leu Glu Val Leu His Cys Val Leu Val Glu Ser Pro Glu
 610 615 620
 Ala Leu Asn Ile Ile Lys Glu Gly His Ile Lys Ser Ile Ile Ser Leu
 625 630 635 640
 Leu Asp Lys His Gly Arg Asn His Lys Val Leu Asp Val Leu Cys Ser
 645 650 655
 Leu Cys Val Cys His Gly Val Ala Val Arg Ser Asn Gln His Leu Ile
 660 665 670
 Cys Asp Asn Leu Leu Pro Gly Arg Asp Leu Leu Leu Gln Thr Arg Leu
 675 680 685
 Val Asn His Val Ser Ser Met Arg Pro Asn Ile Phe Leu Gly Val Ser
 690 695 700
 Glu Gly Ser Ala Gln Tyr Lys Lys Trp Tyr Tyr Glu Leu Met Val Asp
 705 710 715 720
 His Thr Glu Pro Phe Val Thr Ala Glu Ala Thr His Leu Arg Val Gly
 725 730 735
 Trp Ala Ser Thr Glu Gly Tyr Ser Pro Tyr Pro Gly Gly Gly Glu Glu
 740 745 750
 Trp Gly Gly Asn Gly Val Gly Asp Asp Leu Phe Ser Tyr Gly Phe Asp
 755 760 765
 Gly Leu His Leu Trp Ser Gly Cys Ile Ala Arg Thr Val Ser Ser Pro
 770 775 780
 Asn Gln His Leu Leu Arg Thr Asp Asp Val Ile Ser Cys Cys Leu Asp
 785 790 795 800

Leu Ser Ala Pro Ser Ile Ser Phe Arg Ile Asn Gly Gln Pro Val Gln
 805 810 815
 Gly Met Phe Glu Asn Phe Asn Ile Asp Gly Leu Phe Phe Pro Val Val
 820 825 830
 Ser Phe Ser Ala Gly Ile Lys Val Arg Phe Leu Leu Gly Gly Arg His
 835 840 845
 Gly Glu Phe Lys Phe Leu Pro Pro Gly Tyr Ala Pro Cys Tyr Glu
 850 855 860
 Ala Val Leu Pro Lys Glu Lys Leu Lys Val Glu His Ser Arg Glu Tyr
 865 870 875 880
 Lys Gln Glu Arg Thr Tyr Thr Arg Asp Leu Leu Gly Pro Thr Val Ser
 885 890 895
 Leu Thr Gln Ala Ala Phe Thr Pro Ile Pro Val Asp Thr Ser Gln Ile
 900 905 910
 Val Leu Pro Pro His Leu Glu Arg Ile Arg Glu Lys Leu Ala Glu Asn
 915 920 925
 Ile His Glu Leu Trp Val Met Asn Lys Ile Glu Leu Gly Trp Gln Tyr
 930 935 940
 Gly Pro Val Arg Asp Asp Asn Lys Arg Gln His Pro Cys Leu Val Glu
 945 950 955 960
 Phe Ser Lys Leu Pro Glu Gln Glu Arg Asn Tyr Asn Leu Gln Met Ser
 965 970 975
 Leu Glu Thr Leu Lys Thr Leu Leu Ala Leu Gly Cys His Val Gly Ile
 980 985 990
 Ser Asp Glu His Ala Glu Asp Lys Val Lys Lys Met Lys Leu Pro Lys
 995 1000 1005
 Asn Tyr Gln Leu Thr Ser Gly Tyr Lys Pro Ala Pro Met Asp Leu Ser
 1010 1015 1020
 Phe Ile Lys Leu Thr Pro Ser Gln Glu Ala Met Val Asp Lys Leu Ala
 1025 1030 1035 1040
 Glu Asn Ala His Asn Val Trp Ala Arg Asp Arg Ile Arg Gln Gly Trp
 1045 1050 1055
 Thr Tyr Gly Ile Gln Gln Asp Val Lys Asn Arg Arg Asn Pro Arg Leu
 1060 1065 1070
 Val Pro Tyr Thr Pro Leu Asp Asp Arg Thr Lys Lys Ser Asn Lys Asp
 1075 1080 1085
 Ser Leu Arg Glu Ala Val Arg Thr Leu Leu Gly Tyr Gly Tyr Asn Leu
 1090 1095 1100
 Glu Ala Pro Asp Gln Asp His Ala Ala Arg Ala Glu Val Cys Ser Gly
 1105 1110 1115 1120
 Thr Gly Glu Arg Phe Arg Ile Phe Arg Ala Glu Lys Thr Tyr Ala Val
 1125 1130 1135
 Lys Ala Gly Arg Trp Tyr Phe Glu Phe Glu Thr Val Thr Ala Gly Asp
 1140 1145 1150
 Met Arg Val Gly Trp Ser Arg Pro Gly Cys Gln Pro Asp Gln Glu Leu
 1155 1160 1165
 Gly Ser Asp Glu Arg Ala Phe Ala Phe Asp Gly Phe Lys Ala Gln Arg
 1170 1175 1180
 Trp His Gln Gly Asn Glu His Tyr Gly Arg Ser Trp Gln Ala Gly Asp
 1185 1190 1195 1200
 Val Val Gly Cys Met Val Asp Met Asn Glu His Thr Met Met Phe Thr
 1205 1210 1215
 Leu Asn Gly Glu Ile Leu Leu Asp Asp Ser Gly Ser Glu Leu Ala Phe
 1220 1225 1230
 Lys Asp Phe Asp Val Gly Asp Gly Phe Ile Pro Val Cys Ser Leu Gly
 1235 1240 1245
 Val Ala Gln Val Gly Arg Met Asn Phe Gly Lys Asp Val Ser Thr Leu
 1250 1255 1260
 Lys Tyr Phe Thr Ile Cys Gly Leu Gln Glu Gly Tyr Glu Pro Phe Ala
 1265 1270 1275 1280
 Val Asn Thr Asn Arg Asp Ile Thr Met Trp Leu Ser Lys Arg Leu Pro
 1285 1290 1295
 Gln Phe Leu Gln Val Pro Ser Asn His Glu His Ile Glu Val Thr Arg
 1300 1305 1310

Ile Asp Gly Thr Ile Asp Ser Ser Pro Cys Leu Lys Val Thr Gln Lys
 1315 1320 1325
 Ser Phe Gly Ser Gln Asn Ser Asn Thr Asp Ile Met Phe Tyr Arg Leu
 1330 1335 1340
 Ser Met Pro Ile Glu Cys Ala Glu Val Phe Ser Lys Thr Val Ala Gly
 1345 1350 1355 1360
 Gly Leu Pro Gly Ala Gly Leu Phe Gly Pro Lys Asn Asp Leu Glu Asp
 1365 1370 1375
 Tyr Asp Ala Asp Ser Asp Phe Glu Val Leu Met Lys Thr Ala His Gly
 1380 1385 1390
 His Leu Val Pro Asp Arg Val Asp Lys Asp Lys Glu Ala Thr Lys Pro
 1395 1400 1405
 Glu Phe Asn Asn His Lys Asp Tyr Ala Gln Glu Lys Pro Ser Arg Leu
 1410 1415 1420
 Lys Gln Arg Phe Leu Leu Arg Arg Thr Lys Pro Asp Tyr Ser Thr Ser
 1425 1430 1435 1440
 His Ser Ala Arg Leu Thr Glu Asp Val Leu Ala Asp Asp Arg Asp Asp
 1445 1450 1455
 Tyr Asp Phe Leu Met Gln Thr Ser Thr Tyr Tyr Tyr Ser Val Arg Ile
 1460 1465 1470
 Phe Pro Gly Gln Glu Pro Ala Asn Val Trp Val Gly Trp Ile Thr Ser
 1475 1480 1485
 Asp Phe His Gln Tyr Asp Thr Gly Phe Asp Leu Asp Arg Val Arg Thr
 1490 1495 1500
 Val Thr Val Thr Leu Gly Asp Glu Lys Gly Lys Val His Glu Ser Ile
 1505 1510 1515 1520
 Lys Arg Ser Asn Cys Tyr Met Val Cys Ala Gly Glu Ser Met Ser Pro
 1525 1530 1535
 Gly Gln Gly Arg Asn Asn Asn Gly Leu Glu Ile Gly Cys Val Val Asp
 1540 1545 1550
 Ala Ala Ser Gly Leu Leu Thr Phe Ile Ala Asn Gly Lys Glu Leu Ser
 1555 1560 1565
 Thr Tyr Tyr Gln Val Glu Pro Ser Thr Lys Leu Phe Pro Ala Val Phe
 1570 1575 1580
 Ala Gln Ala Thr Ser Pro Asn Val Phe Gln Phe Glu Leu Gly Arg Ile
 1585 1590 1595 1600
 Lys Asn Val Met Pro Leu Ser Ala Gly Leu Phe Lys Ser Glu His Lys
 1605 1610 1615
 Asn Pro Val Pro Gln Cys Pro Pro Arg Leu His Val Gln Phe Leu Ser
 1620 1625 1630
 His Val Leu Trp Ser Arg Met Pro Asn Gln Phe Leu Lys Val Asp Val
 1635 1640 1645
 Ser Arg Ile Ser Glu Arg Gln Gly Trp Leu Val Gln Cys Leu Asp Pro
 1650 1655 1660
 Leu Gln Phe Met Ser Leu His Ile Pro Glu Glu Asn Arg Ser Val Asp
 1665 1670 1675 1680
 Ile Leu Glu Leu Thr Glu Gln Glu Glu Leu Lys Phe His Tyr His
 1685 1690 1695
 Thr Leu Arg Leu Tyr Ser Ala Val Cys Ala Leu Gly Asn His Arg Val
 1700 1705 1710
 Ala His Ala Leu Cys Ser His Val Asp Glu Pro Gln Leu Leu Tyr Ala
 1715 1720 1725
 Ile Glu Asn Lys Tyr Met Pro Gly Leu Leu Arg Ala Gly Tyr Tyr Asp
 1730 1735 1740
 Leu Leu Ile Asp Ile His Leu Ser Ser Tyr Ala Thr Ala Arg Leu Met
 1745 1750 1755 1760
 Met Asn Asn Glu Tyr Ile Val Pro Met Thr Glu Glu Thr Lys Ser Ile
 1765 1770 1775
 Thr Leu Phe Pro Asp Glu Asn Lys Lys His Gly Leu Pro Gly Ile Gly
 1780 1785 1790
 Leu Ser Thr Ser Leu Arg Pro Arg Met Gln Phe Ser Ser Pro Ser Phe
 1795 1800 1805
 Val Ser Ile Ser Asn Glu Cys Tyr Gln Tyr Ser Pro Glu Phe Pro Leu
 1810 1815 1820

Asp Ile Leu Lys Ser Lys Thr Ile Gln Met Leu Thr Glu Ala Val Lys
 1825 1830 1835 1840
 Glu Gly Ser Leu His Ala Arg Asp Pro Val Gly Gly Thr Thr Glu Phe
 1845 1850 1855
 Leu Phe Val Pro Leu Ile Lys Leu Phe Tyr Thr Leu Leu Ile Met Gly
 1860 1865 1870
 Ile Phe His Asn Glu Asp Leu Lys His Ile Leu Gln Leu Ile Glu Pro
 1875 1880 1885
 Ser Val Phe Lys Glu Ala Ala Thr Pro Glu Glu Glu Ser Asp Thr Leu
 1890 1895 1900
 Glu Lys Glu Leu Ser Val Asp Asp Ala Lys Leu Gln Gly Ala Gly Glu
 1905 1910 1915 1920
 Glu Glu Ala Lys Gly Gly Lys Arg Pro Lys Glu Gly Leu Leu Gln Met
 1925 1930 1935
 Lys Leu Pro Glu Pro Val Lys Leu Gln Met Cys Leu Leu Gln Tyr
 1940 1945 1950
 Leu Cys Asp Cys Gln Val Arg His Arg Ile Glu Ala Ile Val Ala Phe
 1955 1960 1965
 Ser Asp Asp Phe Val Ala Lys Leu Gln Asp Asn Gln Arg Phe Arg Tyr
 1970 1975 1980
 Asn Glu Val Met Gln Ala Leu Asn Met Ser Ala Ala Leu Thr Ala Arg
 1985 1990 1995 2000
 Lys Thr Lys Glu Phe Arg Ser Pro Pro Gln Glu Gln Ile Asn Met Leu
 2005 2010 2015
 Leu Asn Phe Lys Asp Asp Lys Ser Glu Cys Pro Cys Pro Glu Glu Ile
 2020 2025 2030
 Arg Asp Gln Leu Leu Asp Phe His Glu Asp Leu Met Thr His Cys Gly
 2035 2040 2045
 Ile Glu Leu Asp Glu Asp Gly Ser Leu Asp Gly Asn Ser Asp Leu Thr
 2050 2055 2060
 Ile Arg Gly Arg Leu Leu Ser Leu Val Glu Lys Val Thr Tyr Leu Lys
 2065 2070 2075 2080
 Lys Lys Gln Ala Glu Lys Pro Val Glu Ser Asp Ser Lys Lys Ser Ser
 2085 2090 2095
 Thr Leu Gln Gln Leu Ile Ser Glu Thr Met Val Arg Trp Ala Gln Glu
 2100 2105 2110
 Ser Val Ile Glu Asp Pro Glu Leu Val Arg Ala Met Phe Val Leu Leu
 2115 2120 2125
 His Arg Gln Tyr Asp Gly Ile Gly Gly Leu Val Arg Ala Leu Pro Lys
 2130 2135 2140
 Thr Tyr Thr Ile Asn Gly Val Ser Val Glu Asp Thr Ile Asn Leu Leu
 2145 2150 2155 2160
 Ala Ser Leu Gly Gln Ile Arg Ser Leu Leu Ser Val Arg Met Gly Lys
 2165 2170 2175
 Glu Glu Glu Lys Leu Met Ile Arg Gly Leu Gly Asp Ile Met Asn Asn
 2180 2185 2190
 Lys Val Phe Tyr Gln His Pro Asn Leu Met Arg Ala Leu Gly Met His
 2195 2200 2205
 Glu Thr Val Met Glu Val Met Val Asn Val Leu Gly Gly Gly Glu Ser
 2210 2215 2220
 Lys Glu Ile Thr Phe Pro Lys Met Val Ala Asn Cys Cys Arg Phe Leu
 2225 2230 2235 2240
 Cys Tyr Phe Cys Arg Ile Ser Arg Gln Asn Gln Lys Ala Met Phe Asp
 2245 2250 2255
 His Leu Ser Tyr Leu Leu Glu Asn Ser Ser Val Gly Leu Ala Ser Pro
 2260 2265 2270
 Ala Met Arg Gly Ser Thr Pro Leu Asp Val Ala Ala Ala Ser Val Met
 2275 2280 2285
 Asp Asn Asn Glu Leu Ala Leu Ala Leu Arg Glu Pro Asp Leu Glu Lys
 2290 2295 2300
 Val Val Arg Tyr Leu Ala Gly Cys Gly Leu Gln Ser Cys Gln Met Leu
 2305 2310 2315 2320
 Val Ser Lys Gly Tyr Pro Asp Ile Gly Trp Asn Pro Val Glu Gly Glu
 2325 2330 2335

Arg Tyr Leu Asp Phe Leu Arg Phe Ala Val Phe Cys Asn Gly Glu Ser
 2340 2345 2350
 Val Glu Glu Asn Ala Asn Val Val Arg Leu Leu Ile Arg Arg Pro
 2355 2360 2365
 Glu Cys Phe Gly Pro Ala Leu Arg Gly Glu Gly Gly Asn Gly Leu Leu
 2370 2375 2380
 Ala Ala Met Glu Glu Ala Ile Lys Ile Ala Glu Asp Pro Ser Arg Asp
 2385 2390 2395 2400
 Gly Pro Ser Pro Asn Ser Gly Ser Ser Lys Thr Leu Asp Thr Glu Glu
 2405 2410 2415
 Glu Glu Asp Asp Thr Ile His Met Gly Asn Ala Ile Met Thr Phe Tyr
 2420 2425 2430
 Ser Ala Leu Ile Asp Leu Leu Gly Arg Cys Ala Pro Glu Met His Leu
 2435 2440 2445
 Ile His Ala Gly Lys Gly Glu Ala Ile Arg Ile Arg Ser Ile Leu Arg
 2450 2455 2460
 Ser Leu Ile Pro Leu Gly Asp Leu Val Gly Val Ile Ser Ile Ala Phe
 2465 2470 2475 2480
 Gln Met Pro Thr Ile Ala Lys Asp Gly Asn Val Val Glu Pro Asp Met
 2485 2490 2495
 Ser Ala Gly Phe Cys Pro Asp His Lys Ala Ala Met Val Leu Phe Leu
 2500 2505 2510
 Asp Arg Val Tyr Gly Ile Glu Val Gln Asp Phe Leu Leu His Leu Leu
 2515 2520 2525
 Glu Val Gly Phe Leu Pro Asp Leu Arg Ala Ala Ala Ser Leu Asp Thr
 2530 2535 2540
 Ala Ala Leu Ser Ala Thr Asp Met Ala Leu Ala Leu Asn Arg Tyr Leu
 2545 2550 2555 2560
 Cys Thr Ala Val Leu Pro Leu Leu Thr Arg Cys Ala Pro Leu Phe Ala
 2565 2570 2575
 Gly Thr Glu His His Ala Ser Leu Ile Asp Ser Leu Leu His Thr Val
 2580 2585 2590
 Tyr Arg Leu Ser Lys Gly Cys Ser Leu Thr Lys Ala Gln Arg Asp Ser
 2595 2600 2605
 Ile Glu Val Cys Leu Leu Ser Ile Cys Gly Gln Leu Arg Pro Ser Met
 2610 2615 2620
 Met Gln His Leu Leu Arg Arg Leu Val Phe Asp Val Pro Leu Leu Asn
 2625 2630 2635 2640
 Glu His Ala Lys Met Pro Leu Lys Leu Leu Thr Asn His Tyr Glu Arg
 2645 2650 2655
 Cys Trp Lys Tyr Tyr Cys Leu Pro Gly Gly Trp Gly Asn Phe Gly Ala
 2660 2665 2670
 Ala Ser Glu Glu Glu Leu His Leu Ser Arg Lys Leu Phe Trp Gly Ile
 2675 2680 2685
 Phe Asp Ala Leu Ser Gln Lys Lys Tyr Glu Gln Glu Leu Phe Lys Leu
 2690 2695 2700
 Ala Leu Pro Cys Leu Ser Ala Val Ala Gly Ala Leu Pro Pro Asp Tyr
 2705 2710 2715 2720
 Met Glu Ser Asn Tyr Val Ser Met Met Glu Lys Gln Ser Ser Met Asp
 2725 2730 2735
 Ser Glu Gly Asn Phe Asn Pro Gln Pro Val Asp Thr Ser Asn Ile Thr
 2740 2745 2750
 Ile Pro Glu Lys Leu Glu Tyr Phe Ile Asn Lys Tyr Ala Glu His Ser
 2755 2760 2765
 His Asp Lys Trp Ser Met Asp Lys Leu Ala Asn Gly Trp Ile Tyr Gly
 2770 2775 2780
 Glu Ile Tyr Ser Asp Ser Ser Lys Val Gln Pro Leu Met Lys Pro Tyr
 2785 2790 2795 2800
 Lys Leu Leu Ser Glu Lys Glu Lys Glu Ile Tyr Arg Trp Pro Ile Lys
 2805 2810 2815
 Glu Ser Leu Lys Thr Met Leu Ala Arg Thr Met Arg Thr Glu Arg Thr
 2820 2825 2830
 Arg Glu Gly Asp Ser Met Ala Leu Tyr Asn Arg Thr Arg Arg Ile Ser
 2835 2840 2845

Gln Thr Ser Gln Val Ser Val Asp Ala Ala His Gly Tyr Ser Pro Arg
 2850 2855 2860
 Ala Ile Asp Met Ser Asn Val Thr Leu Ser Arg Asp Leu His Ala Met
 2865 2870 2875 2880
 Ala Glu Met Met Ala Glu Asn Tyr His Asn Ile Trp Ala Lys Lys Lys
 2885 2890 2895
 Lys Met Glu Leu Glu Ser Lys Gly Gly Gly Asn His Pro Leu Leu Val
 2900 2905 2910
 Pro Tyr Asp Thr Leu Thr Ala Lys Glu Lys Ala Lys Asp Arg Glu Lys
 2915 2920 2925
 Ala Gln Asp Ile Leu Lys Phe Leu Gln Ile Asn Gly Tyr Ala Val Ser
 2930 2935 2940
 Arg Gly Phe Lys Asp Leu Glu Leu Asp Thr Pro Ser Ile Glu Lys Arg
 2945 2950 2955 2960
 Phe Ala Tyr Ser Phe Leu Gln Gln Leu Ile Arg Tyr Val Asp Glu Ala
 2965 2970 2975
 His Gln Tyr Ile Leu Glu Phe Asp Gly Gly Ser Arg Gly Lys Gly Glu
 2980 2985 2990
 His Phe Pro Tyr Glu Gln Glu Ile Lys Phe Phe Ala Lys Val Val Leu
 2995 3000 3005
 Pro Leu Ile Asp Gln Tyr Phe Lys Asn His Arg Leu Tyr Phe Leu Ser
 3010 3015 3020
 Ala Ala Ser Arg Pro Leu Cys Ser Gly Gly His Ala Ser Asn Lys Glu
 3025 3030 3035 3040
 Lys Glu Met Val Thr Ser Leu Phe Cys Lys Leu Gly Val Leu Val Arg
 3045 3050 3055
 His Arg Ile Ser Leu Phe Gly Asn Asp Ala Thr Ser Ile Val Asn Cys
 3060 3065 3070
 Leu His Ile Leu Gly Gln Thr Leu Asp Ala Arg Thr Val Met Lys Thr
 3075 3080 3085
 Gly Leu Glu Ser Val Lys Ser Ala Leu Arg Ala Phe Leu Asp Asn Ala
 3090 3095 3100
 Ala Glu Asp Leu Glu Lys Thr Met Glu Asn Leu Lys Gln Gly Gln Phe
 3105 3110 3115 3120
 Thr His Thr Arg Asn Gln Pro Lys Gly Val Thr Gln Ile Ile Asn Tyr
 3125 3130 3135
 Thr Thr Val Ala Leu Leu Pro Met Leu Ser Ser Leu Phe Glu His Ile
 3140 3145 3150
 Gly Gln His Gln Phe Gly Glu Asp Leu Ile Leu Glu Asp Val Gln Val
 3155 3160 3165
 Ser Cys Tyr Arg Ile Leu Thr Ser Leu Tyr Ala Leu Gly Thr Ser Lys
 3170 3175 3180
 Ser Ile Tyr Val Glu Arg Gln Arg Ser Ala Leu Gly Glu Cys Leu Ala
 3185 3190 3195 3200
 Ala Phe Ala Gly Ala Phe Pro Val Ala Phe Leu Glu Thr His Leu Asp
 3205 3210 3215
 Lys His Asn Ile Tyr Ser Ile Tyr Asn Thr Lys Ser Ser Arg Glu Arg
 3220 3225 3230
 Ala Ala Leu Ser Leu Pro Thr Asn Val Glu Asp Val Cys Pro Asn Ile
 3235 3240 3245
 Pro Ser Leu Glu Lys Leu Met Glu Glu Ile Val Glu Leu Ala Glu Ser
 3250 3255 3260
 Gly Ile Arg Tyr Thr Gln Met Pro His Val Met Glu Val Ile Leu Pro
 3265 3270 3275 3280
 Met Leu Cys Ser Tyr Met Ser Arg Trp Trp Glu His Gly Pro Glu Asn
 3285 3290 3295
 Asn Pro Glu Arg Ala Glu Met Cys Cys Thr Ala Leu Asn Ser Glu His
 3300 3305 3310
 Met Asn Thr Leu Leu Gly Asn Ile Leu Lys Ile Ile Tyr Asn Asn Leu
 3315 3320 3325
 Gly Ile Asp Glu Gly Ala Trp Met Lys Arg Leu Ala Val Phe Ser Gln
 3330 3335 3340
 Pro Ile Ile Asn Lys Val Lys Pro Gln Leu Leu Lys Thr His Phe Leu
 3345 3350 3355 3360

Pro Leu Met Glu Lys Leu Lys Lys Lys Ala Ala Thr Val Val Ser Glu
 3365 3370 3375
 Glu Asp His Leu Lys Ala Glu Ala Arg Gly Asp Met Ser Glu Ala Glu
 3380 3385 3390
 Leu Leu Ile Leu Asp Glu Phe Thr Thr Leu Ala Arg Asp Leu Tyr Ala
 3395 3400 3405
 Phe Tyr Pro Leu Leu Ile Arg Phe Val Asp Tyr Asn Arg Ala Lys Trp
 3410 3415 3420
 Leu Lys Glu Pro Asn Pro Glu Ala Glu Glu Leu Phe Arg Met Val Ala
 3425 3430 3435 3440
 Glu Val Phe Ile Tyr Trp Ser Lys Ser His Asn Phe Lys Arg Glu Glu
 3445 3450 3455
 Gln Asn Phe Val Val Gln Asn Glu Ile Asn Asn Met Ser Phe Leu Ile
 3460 3465 3470
 Thr Asp Thr Lys Ser Lys Met Ser Lys Ala Ala Val Ser Asp Gln Glu
 3475 3480 3485
 Arg Lys Lys Met Lys Arg Lys Gly Asp Arg Tyr Ser Met Gln Thr Ser
 3490 3495 3500
 Leu Ile Val Ala Ala Leu Lys Arg Leu Leu Pro Ile Gly Leu Asn Ile
 3505 3510 3515 3520
 Cys Ala Pro Gly Asp Gln Glu Leu Ile Ala Leu Ala Lys Asn Arg Phe
 3525 3530 3535
 Ser Leu Lys Asp Thr Glu Asp Glu Val Arg Asp Ile Ile Arg Ser Asn
 3540 3545 3550
 Ile His Leu Gln Gly Lys Leu Glu Asp Pro Ala Ile Arg Trp Gln Met
 3555 3560 3565
 Ala Leu Tyr Lys Asp Leu Pro Asn Arg Thr Asp Asp Thr Ser Asp Pro
 3570 3575 3580
 Glu Lys Thr Val Glu Arg Val Leu Asp Ile Ala Asn Val Leu Phe His
 3585 3590 3595 3600
 Leu Glu Gln Lys Ser Lys Arg Val Gly Arg Arg His Tyr Cys Leu Val
 3605 3610 3615
 Glu His Pro Gln Arg Ser Lys Lys Ala Val Trp His Lys Leu Leu Ser
 3620 3625 3630
 Lys Gln Arg Lys Arg Ala Val Val Ala Cys Phe Arg Met Ala Pro Leu
 3635 3640 3645
 Tyr Asn Leu Pro Arg His Arg Ala Val Asn Leu Phe Leu Gln Gly Tyr
 3650 3655 3660
 Glu Lys Ser Trp Ile Glu Thr Glu Glu His Tyr Phe Glu Asp Lys Leu
 3665 3670 3675 3680
 Ile Glu Asp Leu Ala Lys Pro Gly Ala Glu Pro Pro Glu Glu Asp Glu
 3685 3690 3695
 Gly Thr Lys Arg Val Asp Pro Leu His Gln Leu Ile Leu Leu Phe Ser
 3700 3705 3710
 Arg Thr Ala Leu Thr Glu Lys Cys Lys Leu Glu Glu Asp Phe Leu Tyr
 3715 3720 3725
 Met Ala Tyr Ala Asp Ile Met Ala Lys Ser Cys His Asp Glu Glu Asp
 3730 3735 3740
 Asp Asp Gly Glu Glu Glu Val Lys Ser Phe Glu Glu Lys Glu Met Glu
 3745 3750 3755 3760
 Lys Gln Lys Leu Leu Tyr Gln Gln Ala Arg Leu His Asp Arg Gly Ala
 3765 3770 3775
 Ala Glu Met Val Leu Gln Thr Ile Ser Ala Ser Lys Gly Glu Thr Gly
 3780 3785 3790
 Pro Met Val Ala Ala Thr Leu Lys Leu Gly Ile Ala Ile Leu Asn Gly
 3795 3800 3805
 Gly Asn Ser Thr Val Gln Gln Lys Met Leu Asp Tyr Leu Lys Glu Lys
 3810 3815 3820
 Lys Asp Val Gly Phe Phe Gln Ser Leu Ala Gly Leu Met Gln Ser Cys
 3825 3830 3835 3840
 Ser Val Leu Asp Leu Asn Ala Phe Glu Arg Gln Asn Lys Ala Glu Gly
 3845 3850 3855
 Leu Gly Met Val Thr Glu Glu Gly Ser Gly Glu Lys Val Leu Gln Asp
 3860 3865 3870

Asp Glu Phe Thr Cys Asp Leu Phe Arg Phe Leu Gln Leu Leu Cys Glu
 3875 3880 3885
 Gly His Asn Ser Asp Phe Gln Asn Tyr Leu Arg Thr Gln Thr Gly Asn
 3890 3895 3900
 Asn Thr Thr Val Asn Ile Ile Ile Ser Thr Val Asp Tyr Leu Leu Arg
 3905 3910 3915 3920
 Val Gln Glu Ser Ile Ser Asp Phe Tyr Trp Tyr Tyr Ser Gly Lys Asp
 3925 3930 3935
 Val Ile Asp Glu Gln Gly Gln Arg Asn Phe Ser Lys Ala Ile Gln Val
 3940 3945 3950
 Ala Lys Gln Val Phe Asn Thr Leu Thr Glu Tyr Ile Gln Gly Pro Cys
 3955 3960 3965
 Thr Gly Asn Gln Gln Ser Leu Ala His Ser Arg Leu Trp Asp Ala Val
 3970 3975 3980
 Val Gly Phe Leu His Val Phe Ala His Met Gln Met Lys Leu Ser Gln
 3985 3990 3995 4000
 Asp Ser Ser Gln Ile Glu Leu Leu Lys Glu Leu Met Asp Leu Gln Lys
 4005 4010 4015
 Asp Met Val Val Met Leu Leu Ser Met Leu Glu Gly Asn Val Val Asn
 4020 4025 4030
 Gly Thr Ile Gly Lys Gln Met Val Asp Met Leu Val Glu Ser Ser Asn
 4035 4040 4045
 Asn Val Glu Met Ile Leu Lys Phe Phe Asp Met Phe Leu Lys Leu Lys
 4050 4055 4060
 Asp Leu Thr Ser Ser Asp Thr Phe Lys Glu Tyr Asp Pro Asp Gly Lys
 4065 4070 4075 4080
 Gly Val Ile Ser Lys Arg Asp Phe His Lys Ala Met Glu Ser His Lys
 4085 4090 4095
 His Tyr Thr Gln Ser Glu Thr Glu Phe Leu Leu Ser Cys Ala Glu Thr
 4100 4105 4110
 Asp Glu Asn Glu Thr Leu Asp Tyr Glu Glu Phe Val Lys Arg Phe His
 4115 4120 4125
 Glu Pro Ala Lys Asp Ile Gly Phe Asn Val Ala Val Leu Leu Thr Asn
 4130 4135 4140
 Leu Ser Glu His Met Pro Asn Asp Thr Arg Leu Gln Thr Phe Leu Glu
 4145 4150 4155 4160
 Leu Ala Glu Ser Val Leu Asn Tyr Phe Gln Pro Phe Leu Gly Arg Ile
 4165 4170 4175
 Glu Ile Met Gly Ser Ala Lys Arg Ile Glu Arg Val Tyr Phe Glu Ile
 4180 4185 4190
 Ser Glu Ser Ser Arg Thr Gln Trp Glu Lys Pro Gln Val Lys Glu Ser
 4195 4200 4205
 Lys Arg Gln Phe Ile Phe Asp Val Val Asn Glu Gly Gly Glu Lys Glu
 4210 4215 4220
 Lys Met Glu Leu Phe Val Asn Phe Cys Glu Asp Thr Ile Phe Glu Met
 4225 4230 4235 4240
 Gln Leu Ala Ala Gln Ile Ser Glu Ser Asp Leu Asn Glu Arg Ser Ala
 4245 4250 4255
 Asn Lys Glu Glu Ser Glu Lys Glu Arg Pro Glu Glu Gln Gly Pro Arg
 4260 4265 4270
 Met Ala Phe Phe Ser Ile Leu Thr Val Arg Ser Ala Leu Phe Ala Leu
 4275 4280 4285
 Arg Tyr Asn Ile Leu Thr Leu Met Arg Met Leu Ser Leu Lys Ser Leu
 4290 4295 4300
 Lys Lys Gln Met Lys Lys Val Lys Lys Met Thr Val Lys Asp Met Val
 4305 4310 4315 4320
 Thr Ala Phe Phe Ser Ser Tyr Trp Ser Ile Phe Met Thr Leu Leu His
 4325 4330 4335
 Phe Val Ala Ser Val Phe Arg Gly Phe Phe Arg Ile Ile Cys Ser Leu
 4340 4345 4350
 Leu Leu Gly Gly Ser Leu Val Glu Gly Ala Lys Lys Ile Lys Val Ala
 4355 4360 4365
 Glu Leu Leu Ala Asn Met Pro Asp Pro Thr Gln Asp Glu Val Arg Gly
 4370 4375 4380

Asp Gly Glu Glu Gly Glu Arg Lys Pro Leu Glu Ala Ala Leu Pro Ser
 4385 4390 4395 4400
 Glu Asp Leu Thr Asp Leu Lys Glu Leu Thr Glu Glu Ser Asp Leu Leu
 4405 4410 4415
 Ser Asp Ile Phe Gly Leu Asp Leu Lys Arg Glu Gly Gly Gln Tyr Lys
 4420 4425 4430
 Leu Ile Pro His Asn Pro Asn Ala Gly Leu Ser Asp Leu Met Ser Asn
 4435 4440 4445
 Pro Val Pro Met Pro Glu Val Gln Glu Lys Phe Gln Glu Gln Lys Ala
 4450 4455 4460
 Lys Glu Glu Glu Lys Glu Glu Lys Glu Glu Thr Lys Ser Glu Pro Glu
 4465 4470 4475 4480
 Lys Ala Glu Gly Glu Asp Gly Glu Lys Glu Glu Lys Ala Lys Glu Asp
 4485 4490 4495
 Lys Gly Lys Gln Lys Leu Arg Gln Leu His Thr His Arg Tyr Gly Glu
 4500 4505 4510
 Pro Glu Val Pro Glu Ser Ala Phe Trp Lys Lys Ile Ile Ala Tyr Gln
 4515 4520 4525
 Gln Lys Leu Leu Asn Tyr Phe Ala Arg Asn Phe Tyr Asn Met Arg Met
 4530 4535 4540
 Leu Ala Leu Phe Val Ala Phe Ala Ile Asn Phe Ile Leu Leu Phe Tyr
 4545 4550 4555 4560
 Lys Val Ser Thr Ser Ser Val Val Glu Gly Lys Glu Leu Pro Thr Arg
 4565 4570 4575
 Ser Ser Ser Glu Asn Ala Lys Val Thr Ser Leu Asp Ser Ser Ser His
 4580 4585 4590
 Arg Ile Ile Ala Val His Tyr Val Leu Glu Glu Ser Ser Gly Tyr Met
 4595 4600 4605
 Glu Pro Thr Val Arg Ile Leu Pro Ile Leu His Thr Val Ile Ser Phe
 4610 4615 4620
 Phe Cys Ile Ile Gly Tyr Tyr Cys Leu Lys Val Pro Leu Val Ile Phe
 4625 4630 4635 4640
 Lys Arg Glu Lys Glu Val Ala Arg Lys Leu Glu Phe Asp Gly Leu Tyr
 4645 4650 4655
 Ile Thr Glu Gln Pro Ser Glu Asp Asp Ile Lys Gly Gln Trp Asp Arg
 4660 4665 4670
 Leu Val Ile Asn Thr Gln Ser Phe Pro Asn Asn Tyr Trp Asp Lys Phe
 4675 4680 4685
 Val Lys Arg Lys Val Met Asp Lys Tyr Gly Glu Phe Tyr Gly Arg Asp
 4690 4695 4700
 Arg Ile Ser Glu Leu Leu Gly Met Asp Lys Ala Ala Leu Asp Phe Ser
 4705 4710 4715 4720
 Asp Ala Arg Glu Lys Lys Pro Lys Lys Asp Ser Ser Leu Ser Ala
 4725 4730 4735
 Val Leu Asn Ser Ile Asp Val Lys Tyr Gln Met Trp Lys Leu Gly Val
 4740 4745 4750
 Val Phe Thr Asp Asn Ser Phe Leu Tyr Leu Ala Trp Tyr Met Thr
 4755 4760 4765 4767

<210> 1903
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 <212> PRT
 <213> Homo sapiens

<400> 1903
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 20 25 30
 Pro Leu Ser His Gly His Ser His Gly Gly Gly Cys Arg Cys Ala
 35 40 45

Ala Glu Arg Val Gly Ala Ala Arg Gly Ser Ala Ala Cys Ala Tyr Gly
 50 55 60
 Leu Tyr Leu Arg Ile Asp Lys Gly Arg Leu Gln Cys Leu Asn Glu Ser
 65 70 75 80
 Arg Glu Gly Ser Gly Arg Gly Val Phe Lys Pro Trp Glu Arg Ala Asp
 85 90 95
 Asp Arg Ser Lys Phe Val Glu Ser Asp Ala Asp Glu Glu Leu Leu Phe
 100 105 110
 Asn Ile Pro Phe Thr Gly His Val Lys Leu Lys Gly Ile Ile Ile Met
 115 120 125
 Gly Glu Asp Asp Asp Ser His Pro Ser Glu Met Arg Leu Tyr Lys Asn
 130 135 140
 Ile Pro Gln Met Ser Phe Asp Asp Thr Glu Arg Glu Pro Asp Gln Thr
 145 150 155 160
 Phe Ser Leu Asn Arg Asp Leu Thr Gly Glu Leu Glu Tyr Ala Thr Lys
 165 170 175
 Ile Ser Arg Phe Ser Asn Val Tyr His Leu Ser Ile His Ile Ser Lys
 180 185 190
 Asn Phe Gly Ala Asp Thr Thr Lys Val Phe Tyr Ile Gly Leu Arg Gly
 195 200 205
 Glu Trp Thr Glu Leu Arg Arg His Glu Val Thr Ile Cys Asn Tyr Glu
 210 215 220
 Ala Ser Ala Asn Pro Ala Asp His Arg Val His Gln Val Thr Pro Gln
 225 230 235 240
 Thr His Phe Ile Ser
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<210> 1904

<211> 320

<212> PRT

<213> Homo sapiens

<400> 1904

Gly Ile Pro Cys Thr Glu Met Gly Asn Phe Asp Asn Ala Asn Val Thr
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 Glu Ile Cys Ile Lys Ala Cys Lys Asn Leu Ala Tyr Gly Glu Glu Lys
 35 40 45
 Lys Lys Lys Cys Asn Pro Tyr Val Lys Thr Tyr Leu Leu Pro Asp Arg
 50 55 60
 Ser Ser Gln Gly Lys Arg Lys Thr Gly Val Gln Arg Asn Thr Val Asp
 65 70 75 80
 Pro Thr Phe Gln Glu Thr Leu Lys Tyr Gln Val Ala Pro Ala Gln Leu
 85 90 95
 Val Thr Arg Gln Leu Gln Val Ser Val Trp His Leu Gly Thr Leu Ala
 100 105 110
 Arg Arg Val Phe Leu Gly Glu Val Ile Ile Pro Leu Ala Thr Trp Asp
 115 120 125
 Phe Glu Asp Ser Thr Thr Gln Ser Phe Arg Trp His Pro Leu Arg Ala
 130 135 140
 Lys Ala Asp Lys Tyr Glu Asp Ser Val Pro Gln Ser Asn Gly Glu Leu
 145 150 155 160
 Thr Val Arg Ala Lys Leu Val Leu Pro Ser Arg Thr Arg Lys Leu Gln
 165 170 175
 Glu Ala Gln Glu Gly Thr Asp Gln Pro Ser Leu His Gly Gln Leu Cys
 180 185 190
 Leu Val Val Leu Gly Ala Lys Asn Leu Pro Val Arg Pro Asp Gly Thr
 195 200 205
 Leu Asn Ser Phe Val Lys Gly Cys Leu Thr Leu Pro Asp Gln Gln Lys
 210 215 220

Leu Arg Leu Lys Ser Pro Val Leu Arg Lys Gln Ala Cys Pro Gln Trp
 225 230 235 240
 Lys His Ser Phe Val Phe Ser Gly Val Thr Pro Ala Gln Leu Arg Gln
 245 250 255
 Ser Ser Leu Glu Leu Thr Val Trp Asp Gln Ala Leu Phe Gly Met Asn
 260 265 270
 Asp Arg Leu Leu Gly Gly Thr Arg Leu Gly Ser Lys Gly Asp Thr Ala
 275 280 285
 Val Gly Gly Asp Ala Cys Ser Gln Ser Lys Leu Gln Trp Gln Lys Val
 290 295 300
 Leu Ser Ser Pro Asn Leu Trp Thr Asp Met Thr Leu Val Leu His
 305 310 315 319

<210> 1905
 <211> 697
 <212> PRT
 <213> Homo sapiens

<400> 1905
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 20 25 30
 His Glu Asn Glu Arg Arg Trp Gln Gln Glu Arg Leu His Arg Glu Glu
 35 40 45
 Ala Tyr Trp Gln Phe Ile Asn Glu Leu Asn Asp Glu Asp Tyr Arg Leu
 50 55 60
 Met Arg Asp His Asn Leu Leu Gly Thr Pro Gly Glu Ile Thr Ser Glu
 65 70 75 80
 Glu Leu Gln Gln Arg Leu Asp Gly Val Lys Glu Gln Leu Ala Ser Gln
 85 90 95
 Pro Asp Leu Arg Asp Gly Thr Asn Tyr Arg Asp Ser Glu Val Pro Arg
 100 105 110
 Glu Ser Ser His Glu Asp Ser Leu Leu Glu Trp Leu Asn Thr Phe Arg
 115 120 125
 Arg Thr Gly Asn Ala Thr Arg Ser Gly Gln Asn Gly Asn Gln Thr Trp
 130 135 140
 Arg Ala Val Ser Arg Thr Asn Pro Asn Asn Gly Glu Phe Arg Phe Ser
 145 150 155 160
 Leu Glu Ile His Val Asn His Glu Asn Arg Gly Phe Glu Ile His Gly
 165 170 175
 Glu Asp Tyr Thr Asp Ile Pro Leu Ser Asp Ser Asn Arg Asp His Thr
 180 185 190
 Ala Asn Arg Gln Gln Arg Ser Thr Ser Pro Val Ala Arg Arg Thr Arg
 195 200 205
 Ser Gln Thr Ser Val Asn Phe Asn Gly Ser Ser Ser Asn Ile Pro Arg
 210 215 220
 Thr Arg Leu Ala Ser Arg Gly Gln Asn Pro Ala Glu Gly Ser Phe Ser
 225 230 235 240
 Thr Leu Gly Arg Leu Arg Asn Gly Ile Gly Gly Ala Ala Gly Ile Pro
 245 250 255
 Arg Ala Asn Ala Ser Arg Thr Asn Phe Ser Ser His Thr Asn Gln Ser
 260 265 270
 Gly Gly Ser Glu Leu Arg Gln Arg Glu Gly Gln Arg Phe Gly Ala Ala
 275 280 285
 His Val Trp Glu Asn Gly Ala Arg Ser Asn Val Thr Val Arg Asn Thr
 290 295 300
 Asn Gln Arg Leu Glu Pro Ile Arg Leu Arg Ser Thr Ser Asn Ser Arg
 305 310 315 320
 Ser Arg Ser Pro Ile Gln Arg Gln Ser Gly Thr Val Tyr His Asn Ser
 325 330 335

Gln Arg Glu Ser Arg Pro Val Gln Gln Thr Thr Arg Arg Ser Val Arg
 340 345 350
 Arg Arg Gly Arg Thr Arg Val Phe Leu Glu Gln Asp Arg Glu Arg Glu
 355 360 365
 Arg Arg Gly Thr Ala Tyr Thr Pro Phe Ser Asn Ser Arg Leu Val Ser
 370 375 380
 Arg Ile Thr Val Glu Glu Gly Glu Glu Ser Ser Arg Ser Ser Thr Ala
 385 390 395 400
 Val Arg Arg His Pro Thr Ile Thr Leu Asp Leu Gln Val Arg Arg Ile
 405 410 415
 Arg Pro Gly Glu Asn Arg Asp Arg Asp Ser Ile Ala Asn Arg Thr Arg
 420 425 430
 Ser Arg Val Gly Leu Ala Glu Asn Thr Val Thr Ile Glu Ser Asn Ser
 435 440 445
 Gly Gly Phe Arg Arg Thr Ile Ser Arg Leu Glu Arg Ser Gly Ile Arg
 450 455 460
 Thr Tyr Val Ser Thr Ile Thr Val Pro Leu Arg Arg Ile Ser Glu Asn
 465 470 475 480
 Glu Leu Val Glu Pro Ser Ser Val Ala Leu Arg Ser Ile Leu Arg Gln
 485 490 495
 Ile Met Thr Gly Phe Gly Glu Leu Ser Ser Leu Met Glu Ala Asp Ser
 500 505 510
 Glu Ser Glu Leu Gln Arg Asn Gly Gln His Leu Pro Asp Met His Ser
 515 520 525
 Glu Leu Ser Asn Leu Gly Thr Asp Asn Asn Arg Ser Gln His Arg Glu
 530 535 540
 Gly Ser Ser Gln Asp Arg Gln Ala Gln Gly Asp Ser Thr Glu Met His
 545 550 555 560
 Gly Glu Asn Glu Thr Thr Gln Pro His Thr Arg Asn Ser Asp Ser Arg
 565 570 575
 Gly Gly Arg Gln Leu Arg Asn Pro Asn Asn Leu Val Glu Thr Gly Thr
 580 585 590
 Leu Pro Ile Leu Arg Leu Ala His Phe Phe Leu Leu Asn Glu Ser Asp
 595 600 605
 Asp Asp Asp Arg Ile Arg Gly Leu Thr Lys Glu Gln Ile Asp Asn Leu
 610 615 620
 Ser Thr Arg His Tyr Glu His Asn Ser Ile Asp Ser Glu Leu Gly Lys
 625 630 635 640
 Ile Cys Ser Val Cys Ile Ser Asp Tyr Val Thr Gly Asn Lys Leu Arg
 645 650 655
 Gln Leu Pro Cys Met His Glu Phe His Ile His Cys Ile Asp Arg Trp
 660 665 670
 Leu Ser Glu Asn Cys Thr Cys Pro Ile Cys Arg Gln Pro Val Leu Gly
 675 680 685
 Ser Asn Ile Ala Asn Asn Gly
 690 695

<210> 1906

<211> 152

<212> PRT

<213> Homo sapiens

<400> 1906

Leu Gln Arg Gln Arg Gln His Pro Ala Ala Ala Pro Ala Val Pro Val
 1 5 10 15
 Arg Cys Phe Thr Phe Cys Phe Thr Asp Ile Val Ile Met Pro Lys Arg
 20 25 30
 Lys Ser Pro Glu Asn Thr Glu Gly Lys Asp Gly Ser Lys Val Thr Lys
 35 40 45
 Gln Glu Pro Thr Arg Arg Ser Ala Arg Leu Ser Ala Lys Pro Ala Pro
 50 55 60

```

Pro Lys Pro Glu Pro Lys Pro Arg Lys Thr Ser Ala Lys Lys Glu Pro
65          70          75          80
Gly Ala Lys Ile Ser Arg Gly Ala Lys Gly Lys Lys Glu Glu Lys Gln
85          90          95
Glu Ala Gly Lys Glu Gly Thr Ala Pro Ser Glu Asn Gly Glu Thr Lys
100        105        110
Ala Glu Glu Ile His Ile Ser Arg Ser Thr Val Asn Val Ser Thr Ser
115        120        125
Arg Gly Thr Pro Pro Ser Thr Leu Ser Val Lys Gly Gln Ile Glu Thr
130        135        140
Val Arg Val Lys Gly Thr Glu Asn
145          150        152

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<210> 1907
<211> 91
<212> PRT
<213> Homo sapiens

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<400> 1907
Ala Arg Arg Phe Ser Cys Leu Thr Leu Gln Thr Ser Trp Gly His Arg
1      5      10      15
His Gly Pro Pro Arg Pro Ala Asn Phe Val Phe Leu Val Glu Thr Gly
20     25     30
Phe Leu His Ile Gly Gln Ala Gly His Lys Leu Pro Thr Ser Gly Asp
35     40     45
Pro Pro Ala Ser Ala Ser Gln Ser Ala Arg Ile Thr Gly Met Ser His
50     55     60
Arg Thr Trp Phe Leu Ala Ser Phe Leu Ile Asp Ser Cys Lys Asn Phe
65     70     75     80
Ile Val Tyr Lys Ile Met Tyr Thr Leu
85     89

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<210> 1908
<211> 417
<212> PRT
<213> Homo sapiens

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<400> 1908
Thr Tyr Arg His Ala Glu Arg Glu His Pro Glu Thr Ser Ser Ala Thr
1      5      10      15
Lys Val Ser Tyr Asp Tyr Arg His Lys Arg Pro Lys Leu Leu Asp Gly
20     25     30
Asp Gln Asp Phe Ser Asp Gly Arg Thr Gln Lys Tyr Cys Lys Glu Glu
35     40     45
Asp Arg Lys Tyr Ser Phe Gln Lys Gly Pro Leu Asn Arg Glu Leu Asp
50     55     60
Cys Phe Asn Thr Gly Arg Gly Arg Glu Thr Gln Asp Gly Gln Val Lys
65     70     75     80
Glu Pro Phe Lys Pro Ser Lys Lys Asp Ser Ile Ala Cys Thr Tyr Ser
85     90     95
Asn Lys Asn Asp Val Asp Leu Arg Ser Ser Asn Asp Lys Trp Lys Glu
100    105    110
Lys Lys Lys Lys Glu Gly Asp Cys Arg Lys Glu Ser Asn Ser Ser Ser
115    120    125
Asn Gln Leu Asp Lys Ser Gln Lys Leu Pro Asp Val Lys Pro Ser Pro
130    135    140
Ile Asn Leu Arg Lys Lys Ser Leu Thr Val Lys Val Asp Val Lys Lys
145    150    155    160

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Thr Val Asp Thr Phe Arg Val Ala Ser Ser Tyr Ser Thr Glu Arg Gln
 165 170 175
 Met Ser His Asp Leu Val Ala Val Gly Arg Lys Ser Glu Asn Phe His
 180 185 190
 Pro Val Phe Glu His Leu Asp Ser Thr Gln Asn Thr Glu Asn Lys Pro
 195 200 205
 Thr Gly Glu Phe Ala Gln Glu Ile Ile Thr Ile Ile His Gln Val Lys
 210 215 220
 Ala Asn Tyr Phe Pro Ser Pro Gly Ile Thr Leu His Glu Arg Phe Ser
 225 230 235 240
 Lys Met Ala Asp Ile His Lys Ala Asp Val Asn Glu Ile Pro Leu Asn
 245 250 255
 Ser Asp Pro Glu Ile His Arg Arg Ile Asp Met Ser Leu Ala Glu Leu
 260 265 270
 Gln Ser Lys Gln Ala Val Ile Tyr Glu Ser Glu Gln Thr Leu Ile Lys
 275 280 285
 Ile Ile Asp Pro Asn Asp Leu Arg His Asp Ile Glu Arg Arg Arg Lys
 290 295 300
 Glu Arg Leu Gln Asn Glu Asp Glu His Ile Phe His Ile Ala Ser Ala
 305 310 315 320
 Ala Glu Arg Asp Asp Gln Asn Ser Ser Phe Ser Lys Asn Tyr Thr Thr
 325 330 335
 Gln Arg Lys Asp Ile Ile Thr His Lys Pro Phe Glu Val Glu Gly Asn
 340 345 350
 His Arg Asn Thr Arg Val Arg Pro Phe Lys Ser Asn Phe Arg Gly Gly
 355 360 365
 Arg Cys Gln Pro Asn Tyr Lys Ser Gly Leu Val Gln Lys Ser Leu Tyr
 370 375 380
 Ile Gln Ala Lys Tyr Gln Arg Leu Arg Phe Thr Gly Pro Arg Gly Phe
 385 390 395 400
 Ile Thr His Lys Phe Arg Glu Arg Leu Met Arg Lys Lys Lys Val Pro
 405 410 415 416

<210> 1909
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 1909
 Lys Phe Ser Ile Pro Phe Phe Leu Arg Trp Ser Phe Thr Leu Val Pro
 1 5 10 15
 Arg Leu Glu Gly Asn Asp Met Ile Ser Val His Cys Asn Leu Gly Leu
 20 25 30
 Leu Gly Leu Ser His Ser Pro Ala Ser Ala Ser Gln Val Gly Gly Ile
 35 40 45
 Thr Gly Thr Gln His His Thr Gly Leu Ile Phe Gly Phe Leu Ile Glu
 50 55 60
 Thr Glu Phe His His Val Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser
 65 70 75 80
 Gly Asp Pro Pro Ala Leu Ala Phe Gln Ser Ala Gly Ile Thr Gly Val
 85 90 95
 Ser His His Ala Trp Leu Gln Val Leu Asn Ser
 100 105 107

<210> 1910
 <211> 526
 <212> PRT

<213> Homo sapiens

<400> 1910

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Thr Leu Ser Leu Leu Glu Arg Val Leu Met Lys Asp Ile Val Thr Pro
 1          5          10          15
Val Pro Gln Glu Val Lys Thr Val Ile Arg Lys Cys Leu Glu Gln
 20          25          30
Ala Ala Leu Val Asn Tyr Ser Arg Leu Ser Glu Tyr Ala Lys Ile Glu
 35          40          45
Gly Lys Lys Arg Glu Met Tyr Glu Leu Pro Val Phe Cys Leu Ala Ser
 50          55          60
Gln Val Met Asp Leu Thr Ile Gln Asn Gln Lys Asp Ala Glu Asn Val
 65          70          75          80
Gly Arg Leu Ile Thr Pro Ala Lys Lys Leu Glu Asp Thr Ile Arg Leu
 85          90          95
Ala Glu Leu Val Ile Glu Val Leu Gln Asn Glu Glu His His Ala
100          105          110
Glu Ala Phe Ala Trp Trp Ser Asp Leu Met Val Glu His Ala Glu Thr
115          120          125
Phe Leu Ser Leu Phe Ala Val Asp Met Asp Ala Ala Leu Glu Val Gln
130          135          140
Pro Pro Asp Thr Trp Asp Ser Phe Pro Leu Phe Gln Leu Leu Asn Asp
145          150          155          160
Phe Leu Arg Thr Gly Leu Leu Ile Cys Gly Asn Gly Lys Phe His Lys
165          170          175
His Leu Gln Asp Leu Phe Ala Pro Leu Val Val Arg Tyr Met Trp Asp
180          185          190
Leu Asp Gly Ser Ser Pro Ile Ala Gln Ser Ile His Arg Gly Leu Leu
195          200          205
Ser Arg Glu Ser Trp Glu Pro Val Asn Asn Gly Ser Gly Thr Ser Glu
210          215          220
Asp Leu Phe Trp Lys Leu Asp Ala Leu Gln Thr Phe Ile Arg Asp Leu
225          230          235          240
His Trp Pro Glu Glu Glu Phe Gly Lys His Leu Glu Gln Arg Leu Lys
245          250          255
Leu Met Ala Ser Asp Met Ile Glu Ser Cys Val Lys Arg Thr Arg Ile
260          265          270
Ala Phe Glu Val Lys Leu Gln Lys Thr Ser Ser Ile Gln Gln Ile Phe
275          280          285
Arg Val Pro Gln Phe Asn Met Ala Pro Cys Phe Asn Val Met Gly Leu
290          295          300
Met Ala Lys Gly Ser Ile Gln Pro Lys Leu Cys Ser Met Glu Met Gly
305          310          315          320
Gln Glu Phe Ala Lys Met Trp His Gln Tyr His Ser Lys Ile Asp Glu
325          330          335
Leu Ile Glu Glu Thr Val Lys Glu Met Ile Thr Leu Leu Val Ala Lys
340          345          350
Phe Val Thr Ile Leu Glu Gly Val Leu Ala Lys Leu Ser Arg Tyr Asp
355          360          365
Glu Gly Thr Leu Phe Ser Ser Phe Leu Ser Phe Thr Val Lys Ala Ala
370          375          380
Ser Lys Tyr Val Asp Val Pro Lys Pro Gly Met Asp Val Ala Asp Ala
385          390          395          400
Tyr Val Thr Phe Val Arg His Ser Gln Asp Val Leu Arg Asp Lys Val
405          410          415
Asn Glu Glu Met Tyr Ile Glu Arg Leu Phe Asp Gln Trp Tyr Asn Ser
420          425          430
Ser Met Asn Val Ile Cys Thr Trp Leu Thr Asp Arg Met Asp Leu Gln
435          440          445
Leu His Ile Tyr Gln Leu Lys Thr Leu Ile Arg Met Val Lys Lys Thr
450          455          460
Tyr Arg Asp Phe Arg Leu Gln Gly Val Leu Asp Ser Thr Leu Asn Ser
465          470          475          480

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Lys Thr Tyr Glu Thr Ile Arg Asn Arg Leu Thr Val Glu Glu Ala Thr
 485 490 495
 Ala Ser Val Ser Glu Gly Gly Gly Leu Gln Gly Ile Ser Met Lys Asp
 500 505 510
 Ser Asp Glu Glu Asp Glu Glu Asp Asp
 515 520 521

<210> 1911
 <211> 216
 <212> PRT
 <213> Homo sapiens

<400> 1911
 Ser Glu Leu Val Gln Phe Leu Leu Ile Lys Asp Gln Lys Lys Ile Pro
 1 5 10 15
 Ile Lys Arg Ala Asp Ile Leu Lys His Val Ile Gly Asp Tyr Lys Asp
 20 25 30
 Ile Phe Pro Asp Leu Phe Lys Arg Ala Ala Glu Arg Leu Gln Tyr Val
 35 40 45
 Phe Gly Tyr Lys Leu Val Glu Leu Glu Pro Lys Ser Asn Thr Tyr Ile
 50 55 60
 Leu Ile Asn Thr Leu Glu Pro Val Glu Glu Asp Ala Glu Met Arg Gly
 65 70 75 80
 Asp Gln Gly Thr Pro Thr Thr Gly Leu Leu Met Ile Val Leu Gly Leu
 85 90 95
 Ile Phe Met Lys Gly Asn Thr Ile Lys Glu Thr Glu Ala Trp Asp Phe
 100 105 110
 Leu Leu Ala Leu Gly Val Tyr Pro Thr Lys Lys His Leu Ile Phe Gly
 115 120 125
 Asp Pro Lys Lys Leu Ile Thr Glu Asp Phe Val Arg Gln Arg Tyr Leu
 130 135 140
 Glu Tyr Arg Arg Ile Pro His Thr Asp Pro Val Asp Tyr Glu Phe Gln
 145 150 155 160
 Trp Gly Pro Arg Thr Asn Leu Glu Thr Ser Lys Met Lys Val Leu Lys
 165 170 175
 Phe Val Ala Lys Val His Asn Gln Asp Pro Lys Asp Trp Pro Ala Gln
 180 185 190
 Tyr Cys Glu Ala Leu Ala Asp Glu Glu Asn Arg Ala Arg Pro Gln Pro
 195 200 205
 Ser Gly Pro Ala Pro Ser Ser
 210 215

<210> 1912
 <211> 499
 <212> PRT
 <213> Homo sapiens

<400> 1912
 Met Val Thr Trp Leu Tyr Arg Phe Leu Pro Thr Ser Asn Met Ala Ala
 1 5 10 15
 Lys Leu Arg Ser Leu Leu Pro Pro Asp Leu Arg Leu Gln Phe Trp Leu
 20 25 30
 His Ala Arg Leu Gln Lys Cys Phe Leu Ser Arg Gly Cys Gly Ser Tyr
 35 40 45
 Cys Ala Gly Ala Lys Ala Ser Pro Leu Pro Gly Lys Met Ala Met Gly
 50 55 60
 Leu Met Cys Gly Arg Arg Glu Leu Leu Arg Leu Leu Gln Ser Gly Arg
 65 70 75 80

Arg Val His Ser Val Ala Gly Pro Ser Gln Trp Leu Gly Lys Pro Leu
 85 90 95
 Thr Thr Arg Leu Phe Pro Ala Ala Pro Cys Cys Cys Arg Pro His
 100 105 110
 Tyr Leu Phe Leu Ala Ala Ser Gly Pro Arg Ser Leu Ser Thr Ser Ala
 115 120 125
 Ile Ser Phe Ala Glu Val Gln Val Gln Ala Pro Pro Val Val Ala Ala
 130 135 140
 Thr Pro Ser Pro Thr Ala Val Pro Glu Val Ala Ser Gly Glu Thr Ala
 145 150 155 160
 Asp Val Val Gln Thr Ala Ala Glu Gln Ser Phe Ala Glu Leu Gly Leu
 165 170 175
 Gly Ser Tyr Thr Pro Val Gly Leu Ile Gln Asn Leu Leu Glu Phe Met
 180 185 190
 His Val Asp Leu Gly Leu Pro Trp Trp Gly Ala Ile Ala Ala Cys Thr
 195 200 205
 Val Phe Ala Arg Cys Leu Ile Phe Pro Leu Ile Val Thr Gly Gln Arg
 210 215 220
 Glu Ala Ala Arg Ile His Asn His Leu Pro Glu Ile Gln Lys Phe Ser
 225 230 235 240
 Ser Arg Ile Arg Glu Ala Lys Leu Ala Gly Asp His Ile Glu Tyr Tyr
 245 250 255
 Lys Ala Ser Ser Glu Met Ala Leu Tyr Gln Lys Lys His Gly Ile Lys
 260 265 270
 Leu Tyr Lys Pro Leu Ile Leu Pro Val Thr Gln Ala Pro Ile Phe Ile
 275 280 285
 Ser Phe Phe Ile Ala Leu Arg Glu Met Ala Asn Leu Pro Val Pro Ser
 290 295 300
 Leu Gln Thr Gly Gly Leu Trp Trp Phe Gln Asp Leu Thr Val Ser Asp
 305 310 315 320
 Pro Ile Tyr Ile Leu Pro Leu Ala Val Thr Ala Thr Met Trp Ala Val
 325 330 335
 Leu Glu Leu Gly Ala Glu Thr Gly Val Gln Ser Ser Asp Leu Gln Trp
 340 345 350
 Met Arg Asn Val Ile Arg Met Met Pro Leu Ile Thr Leu Pro Ile Thr
 355 360 365
 Met His Phe Pro Thr Ala Val Phe Met Tyr Trp Leu Ser Ser Asn Leu
 370 375 380
 Phe Ser Leu Val Gln Val Ser Cys Leu Arg Ile Pro Ala Val Arg Thr
 385 390 395 400
 Val Leu Lys Ile Pro Gln Arg Val Val His Asp Leu Asp Lys Leu Pro
 405 410 415
 Pro Arg Glu Gly Phe Leu Glu Ser Phe Lys Lys Gly Trp Lys Asn Ala
 420 425 430
 Glu Met Thr Arg Gln Leu Arg Glu Arg Glu Gln Arg Met Arg Asn Gln
 435 440 445
 Leu Glu Leu Ala Ala Arg Gly Pro Leu Arg Gln Thr Phe Thr His Asn
 450 455 460
 Pro Leu Leu Gln Pro Gly Lys Asp Asn Pro Pro Asn Ile Pro Ser Ser
 465 470 475 480
 Ser Ser Ser Ser Ser Lys Pro Lys Ser Lys Tyr Pro Trp His Asp Thr
 485 490 495
 Leu Gly
 498

<210> 1913

<211> 172

<212> PRT

<213> Homo sapiens

<400> 1913


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Met Gly Gly Leu Ala Pro Thr Gln Thr Leu Glu Pro Thr Arg Glu Tyr
 1          5          10          15
Gln Asn Thr Gln Leu Ser Val Ser Tyr Leu Leu Pro Glu Gln Asn Thr
          20          25          30
His Gly Thr Arg Arg Thr Leu Ser Ser Gly Pro Ser Asn Asn Leu Pro
          35          40          45
Leu Pro Leu Ser Ser Ser Ala Thr Met Pro Ser Met Gln Cys Lys His
          50          55          60
Arg Ser Pro Asn Gly Gly Leu Phe Arg Gln Ser Pro Val Lys Thr Pro
65          70          75          80
Pro Ile Pro Met Ser Phe Gln Pro Val Pro Gly Gly Val Leu Pro Arg
          85          90          95
Gly Ser Gly Asn Pro Pro His Gly Thr Ser Ile Leu Thr Ala Pro Pro
          100          105          110
Ala Leu Leu Pro His Pro Pro Thr His Pro Thr Gln Gln Ser Phe Leu
          115          120          125
Ile Gln Glu Asn Asn Asn Thr Asn His Thr His Ser His Thr His Thr
          130          135          140
Tyr Thr Glu Thr Leu Ser Phe Phe Leu Tyr Ile Cys Val Asn Asn Asp
145          150          155          160
Arg Met Glu Trp Gly Lys Ser Val Phe
          165          169

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<210> 1914
 <211> 122
 <212> PRT
 <213> Homo sapiens

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<400> 1914
Ile Leu Lys Arg Lys Leu Ser Ser Leu Asn Ser Glu Val Ser Thr Ile
 1          5          10          15
Gln Asn Thr Arg Met Leu Ala Phe Lys Ala Thr Ala Gln Leu Phe Ile
          20          25          30
Leu Gly Cys Thr Trp Cys Leu Gly Leu Leu Gln Val Gly Pro Ala Ala
          35          40          45
Gln Val Met Ala Tyr Leu Phe Thr Ile Ile Asn Ser Leu Gln Gly Phe
          50          55          60
Phe Ile Phe Leu Val Tyr Cys Leu Leu Ser Gln Gln Val Gln Lys Gln
65          70          75          80
Tyr Gln Lys Trp Phe Arg Glu Ile Val Lys Ser Lys Ser Glu Ser Glu
          85          90          95
Thr Tyr Thr Leu Ser Ser Lys Met Gly Pro Asp Ser Lys Pro Ser Glu
          100          105          110
Gly Asp Val Phe Pro Arg Thr Ser Glu
          115          120 121

```

<210> 1915
 <211> 107
 <212> PRT
 <213> Homo sapiens

```

<400> 1915
Arg Asn Ser Arg Pro Leu Trp Cys Ser Pro Pro Ala Ser Gln Pro Arg
 1          5          10          15
Gln Ala Pro Val Ser Gln Ser Cys Cys Cys Pro Leu Pro Ser Ser Ser
          20          25          30
Ser Pro Pro Ser Ala Leu Leu Ala Pro Thr Lys Pro Arg Ala Leu Gly
          35          40          45

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Thr Leu Arg Leu Tyr Glu Cys Ser Pro Glu Leu Cys Thr Thr Met Leu
  50          55          60
Pro Pro Ala Trp Leu Leu Met Leu Cys Gln Ala Pro Arg Pro Gln Asp
  65          70          75          80
Pro Asp Pro Arg Leu Thr Gln Pro Glu Lys Ser Leu Gln Glu Ala Pro
          85          90          95
Gly Gln Thr Gly Ala Ser Arg Thr Pro Arg Thr
          100          105          107

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<210> 1916
 <211> 270
 <212> PRT
 <213> Homo sapiens

```

<400> 1916
Leu Asn Ser Ser Gln Lys Leu Ala Cys Leu Ile Gly Val Glu Gly Gly
  1          5          10          15
His Ser Leu Asp Ser Ser Leu Ser Val Leu Arg Ser Phe Tyr Val Leu
          20          25          30
Gly Val Arg Tyr Leu Thr Leu Thr Phe Thr Cys Ser Thr Pro Trp Ala
          35          40          45
Glu Ser Ser Thr Lys Phe Arg His His Met Tyr Thr Asn Val Ser Gly
          50          55          60
Leu Thr Ser Phe Gly Glu Lys Val Val Glu Glu Leu Asn Arg Leu Gly
          65          70          75          80
Met Met Ile Asp Leu Ser Tyr Ala Ser Asp Thr Leu Ile Arg Arg Val
          85          90          95
Leu Glu Val Ser Gln Ala Pro Val Ile Phe Ser His Ser Ala Ala Arg
          100          105          110
Ala Val Cys Asp Asn Leu Leu Asn Val Pro Asp Asp Ile Leu Gln Leu
          115          120          125
Leu Lys Lys Asn Gly Gly Ile Val Met Val Thr Leu Ser Met Gly Val
          130          135          140
Leu Gln Cys Asn Leu Leu Ala Asn Val Ser Thr Val Ala Asp His Phe
          145          150          155          160
Asp His Ile Arg Ala Val Ile Gly Ser Glu Phe Ile Gly Ile Gly Gly
          165          170          175
Asn Tyr Asp Gly Thr Gly Arg Phe Pro Gln Gly Leu Glu Asp Val Ser
          180          185          190
Thr Tyr Pro Val Leu Ile Glu Glu Leu Leu Ser Arg Ser Trp Ser Glu
          195          200          205
Glu Glu Leu Gln Gly Val Leu Arg Gly Asn Leu Leu Arg Val Phe Arg
          210          215          220
Gln Val Glu Lys Val Arg Glu Glu Ser Arg Ala Gln Ser Pro Val Glu
          225          230          235          240
Ala Glu Phe Pro Tyr Gly Gln Leu Ser Thr Ser Cys His Phe His Leu
          245          250          255
Gly Ala Ser Glu Trp Thr Pro Arg Leu Leu Ile Trp Arg
          260          265          269

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<210> 1917
 <211> 368
 <212> PRT
 <213> Homo sapiens

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<400> 1917
Gly Ala Thr Pro Leu Gly Ser Val Gly Gly Arg Thr Gly Lys Met Asp
  1          5          10          15

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Ala Ala Thr Leu Thr Tyr Asp Thr Leu Arg Phe Ala Glu Phe Glu Asp
 20 25 30
 Phe Pro Glu Thr Ser Glu Pro Val Trp Ile Leu Gly Arg Lys Tyr Ser
 35 40 45
 Ile Phe Thr Glu Lys Asp Glu Ile Leu Ser Asp Val Ala Ser Arg Leu
 50 55 60
 Trp Phe Thr Tyr Arg Lys Asn Phe Pro Ala Ile Gly Gly Thr Gly Pro
 65 70 75 80
 Thr Ser Asp Thr Gly Trp Gly Cys Met Leu Arg Cys Gly Gln Met Ile
 85 90 95
 Phe Ala Gln Ala Leu Val Cys Arg His Leu Gly Arg Asp Trp Arg Trp
 100 105 110
 Thr Gln Arg Lys Arg Gln Pro Asp Ser Tyr Phe Ser Val Leu Asn Ala
 115 120 125
 Phe Ile Asp Arg Lys Asp Ser Tyr Tyr Ser Ile His Gln Ile Ala Gln
 130 135 140
 Met Gly Val Gly Glu Gly Lys Ser Ile Gly Gln Trp Tyr Gly Pro Asn
 145 150 155 160
 Thr Val Ala Gln Val Leu Lys Lys Leu Ala Val Phe Asp Thr Trp Ser
 165 170 175
 Ser Leu Ala Val His Ile Ala Met Asp Asn Thr Val Val Met Glu Glu
 180 185 190
 Ile Arg Arg Leu Cys Arg Thr Ser Val Pro Cys Ala Gly Ala Thr Ala
 195 200 205
 Phe Pro Ala Asp Ser Asp Arg His Cys Asn Gly Phe Pro Ala Gly Ala
 210 215 220
 Glu Val Thr Asn Arg Pro Ser Pro Trp Arg Pro Leu Val Leu Leu Ile
 225 230 235 240
 Pro Leu Arg Leu Gly Leu Thr Asp Ile Asn Glu Ala Tyr Val Glu Thr
 245 250 255
 Leu Lys His Cys Phe Met Met Pro Gln Ser Leu Gly Val Ile Gly Gly
 260 265 270
 Lys Pro Asn Ser Ala His Tyr Phe Ile Gly Tyr Val Gly Glu Glu Leu
 275 280 285
 Ile Tyr Leu Asp Pro His Thr Thr Gln Pro Ala Val Glu Pro Thr Asp
 290 295 300
 Gly Cys Phe Ile Pro Asp Glu Ser Phe His Cys Gln His Pro Pro Cys
 305 310 315 320
 Arg Met Ser Ile Ala Glu Leu Asp Pro Ser Ile Ala Val Val Arg Gly
 325 330 335
 Gly His Leu Ser Thr Gln Ala Phe Gly Ala Glu Cys Cys Leu Gly Met
 340 345 350
 Thr Arg Lys Thr Phe Gly Phe Leu Arg Phe Phe Phe Ser Met Leu Gly
 355 360 365 368

<210> 1918

<211> 56

<212> PRT

<213> Homo sapiens

<400> 1918

Ser Arg Lys Phe Leu Thr Ile Thr Pro Ile Val Leu Tyr Phe Leu Thr
 1 5 10 15
 Ser Phe Tyr Thr Lys Tyr Asp Gln Ile His Phe Val Leu Asn Thr Val
 20 25 30
 Ser Leu Met Ser Val Leu Ile Pro Lys Leu Pro Gln Leu His Gly Val
 35 40 45
 Arg Ile Phe Gly Ile Asn Lys Tyr
 50 55 56

<210> 1919
 <211> 116
 <212> PRT
 <213> Homo sapiens

<400> 1919
 Trp Thr Phe Cys Leu Phe Leu Trp Trp Val Pro Glu Ser Ala Arg Trp
 1 5 10 15
 Leu Leu Thr Gln Gly His Val Lys Glu Ala His Arg Tyr Leu Leu His
 20 25 30
 Cys Ala Arg Leu Asn Gly Arg Pro Val Cys Glu Asp Ser Phe Ser Gln
 35 40 45
 Glu Val Arg Val Asn Val Cys Val Ser Met His Ile Cys Val Trp Trp
 50 55 60
 Gly Val Gly Cys Val Lys Cys Leu Pro Pro Arg Ala His His Ile Trp
 65 70 75 80
 Gln Glu Lys Pro Leu Gly Pro His Arg Thr Val Thr Glu Ser Lys Leu
 85 90 95
 Glu Ala Glu Gly Lys Thr Lys Glu Lys Ala Arg Glu Lys Glu Arg Lys
 100 105 110
 Lys Lys Ser
 115

<210> 1920
 <211> 288
 <212> PRT
 <213> Homo sapiens

<400> 1920
 Arg Ser Gly Gln Gly Lys Val Tyr Gly Leu Ile Gly Arg Arg Arg Phe
 1 5 10 15
 Gln Gln Met Asp Val Leu Glu Gly Leu Asn Leu Leu Ile Thr Ile Ser
 20 25 30
 Gly Lys Arg Asn Lys Leu Arg Val Tyr Tyr Leu Ser Trp Leu Arg Asn
 35 40 45
 Lys Ile Leu His Asn Asp Pro Glu Val Glu Lys Lys Gln Gly Trp Thr
 50 55 60
 Thr Val Gly Asp Met Glu Gly Cys Gly His Tyr Arg Val Val Lys Tyr
 65 70 75 80
 Glu Arg Ile Lys Phe Leu Val Ile Ala Leu Lys Ser Ser Val Glu Val
 85 90 95
 Tyr Ala Trp Ala Pro Lys Pro Tyr His Lys Phe Met Ala Phe Lys Ser
 100 105 110
 Phe Ala Asp Leu Pro His Arg Pro Leu Leu Val Asp Leu Thr Val Glu
 115 120 125
 Glu Gly Gln Arg Leu Lys Val Ile Tyr Gly Ser Ser Ala Gly Phe His
 130 135 140
 Ala Val Asp Val Asp Ser Gly Asn Ser Tyr Asp Ile Tyr Ile Pro Val
 145 150 155 160
 His Ile Gln Ser Gln Ile Thr Pro His Ala Ile Ile Phe Leu Pro Asn
 165 170 175
 Thr Asp Gly Met Glu Met Leu Leu Cys Tyr Glu Asp Glu Gly Val Tyr
 180 185 190
 Val Asn Thr Tyr Gly Arg Ile Ile Lys Asp Val Val Leu Gln Trp Gly
 195 200 205
 Glu Met Pro Thr Ser Val Ala Tyr Ile Cys Ser Asn Gln Ile Met Gly
 210 215 220

Trp Gly Glu Lys Ala Ile Glu Ile Arg Ser Val Glu Thr Gly His Leu
 225 230 235 240
 Asp Gly Val Phe Met His Lys Arg Ala Gln Arg Leu Lys Phe Leu Cys
 245 250 255
 Glu Arg Asn Asp Lys Val Phe Phe Ala Ser Val Arg Ser Gly Gly Ser
 260 265 270
 Ser Gln Val Tyr Phe Met Thr Leu Asn Arg Asn Cys Ile Met Asn Trp
 275 280 285 288

<210> 1921
 <211> 172
 <212> PRT
 <213> Homo sapiens

<400> 1921
 Ala Ser Arg Glu Met Asp Val Thr Lys Val Cys Gly Glu Met Arg Tyr
 1 5 10 15
 Gln Leu Asn Lys Thr Asn Met Glu Lys Asp Glu Ala Glu Lys Glu His
 20 25 30
 Arg Glu Phe Arg Ala Lys Thr Asn Arg Asp Leu Glu Ile Lys Asp Gln
 35 40 45
 Glu Ile Glu Lys Leu Arg Ile Glu Leu Asp Glu Ser Lys Gln His Leu
 50 55 60
 Glu Gln Glu Gln Gln Lys Ala Ala Leu Ala Arg Glu Glu Cys Leu Arg
 65 70 75 80
 Leu Thr Glu Leu Leu Gly Glu Ser Glu His Gln Leu His Leu Thr Arg
 85 90 95
 Gln Glu Lys Asp Ser Ile Gln Gln Ser Phe Ser Lys Glu Ala Lys Ala
 100 105 110
 Gln Ala Leu Gln Ala Gln Gln Arg Glu Gln Glu Leu Thr Gln Lys Ile
 115 120 125
 Gln Gln Met Glu Ala Gln His Asp Lys Thr Glu Asn Glu Gln Tyr Leu
 130 135 140
 Leu Leu Thr Ser Gln Asn Thr Phe Leu Thr Lys Leu Lys Glu Glu Cys
 145 150 155 160
 Cys Thr Leu Ala Lys Lys Leu Glu Gln Ile Ser Gln
 165 170 172

<210> 1922
 <211> 375
 <212> PRT
 <213> Homo sapiens

<400> 1922
 Gly Ala Thr Pro Leu Gly Ser Val Gly Gly Arg Thr Gly Lys Met Asp
 1 5 10 15
 Ala Ala Thr Leu Thr Tyr Asp Thr Leu Arg Phe Ala Glu Phe Glu Asp
 20 25 30
 Phe Pro Glu Thr Ser Glu Pro Val Trp Ile Leu Gly Arg Lys Tyr Ser
 35 40 45
 Ile Phe Thr Glu Lys Asp Glu Ile Leu Ser Asp Val Ala Ser Arg Leu
 50 55 60
 Trp Phe Thr Tyr Arg Lys Asn Phe Pro Ala Ile Gly Gly Thr Gly Pro
 65 70 75 80
 Thr Ser Asp Thr Gly Trp Gly Cys Met Leu Arg Cys Gly Gln Met Ile
 85 90 95

Phe Ala Gln Ala Leu Val Cys Arg His Leu Gly Arg Asp Trp Arg Trp
 100 105 110
 Thr Gln Arg Lys Arg Gln Pro Asp Ser Tyr Phe Ser Val Leu Asn Ala
 115 120 125
 Phe Ile Asp Arg Lys Asp Ser Tyr Tyr Ser Ile His Gln Ile Ala Gln
 130 135 140
 Met Gly Val Gly Glu Gly Lys Ser Ile Gly Gln Trp Tyr Gly Pro Asn
 145 150 155 160
 Thr Val Ala Gln Val Leu Lys Lys Leu Ala Val Phe Asp Thr Trp Ser
 165 170 175
 Ser Leu Ala Val His Ile Ala Met Asp Asn Thr Val Val Met Glu Glu
 180 185 190
 Ile Arg Arg Leu Cys Arg Thr Ser Val Pro Cys Ala Gly Ala Thr Ala
 195 200 205
 Phe Pro Ala Asp Ser Asp Arg His Cys Asn Gly Phe Pro Ala Gly Ala
 210 215 220
 Glu Val Thr Asn Arg Pro Ser Pro Trp Arg Pro Leu Val Leu Leu Ile
 225 230 235 240
 Pro Leu Arg Leu Gly Leu Thr Asp Ile Asn Glu Ala Tyr Val Glu Thr
 245 250 255
 Leu Lys His Cys Phe His Gly Trp Pro Gln Phe Pro Gly Val Val His
 260 265 270
 Arg Glu Gly Lys Pro Asn Ser Ala His Tyr Phe Ile Gly Tyr Val Gly
 275 280 285
 Glu Glu Leu Ile Tyr Leu Asp Pro His Thr Thr Gln Pro Ala Val Glu
 290 295 300
 Pro Thr Asp Gly Cys Phe Ile Pro Asp Glu Ser Phe His Cys Gln His
 305 310 315 320
 Pro Pro Cys Arg Met Ser Ile Ala Glu Leu Asp Pro Ser Ile Ala Val
 325 330 335
 Val Arg Gly Gly His Leu Ser Thr Gln Ala Phe Gly Ala Glu Cys Cys
 340 345 350
 Leu Gly Met Thr Arg Lys Thr Phe Gly Phe Leu Arg Phe Phe Ser
 355 360 365
 Met Leu Gly
 370 371

<210> 1923
 <211> 235
 <212> PRT
 <213> Homo sapiens

<400> 1923
 Gly Gly Val Pro Val Gly Leu Ala Ser Lys Pro Phe Gln Ile Leu Tyr
 1 5 10 15
 Gly His Thr Asn Glu Val Leu Ser Val Gly Ile Ser Thr Glu Leu Asp
 20 25 30
 Met Ala Val Ser Gly Ser Arg Asp Gly Thr Val Ile Ile His Thr Ile
 35 40 45
 Gln Lys Gly Gln Tyr Met Arg Thr Leu Arg Pro Pro Cys Glu Ser Ser
 50 55 60
 Leu Phe Leu Thr Ile Pro Asn Leu Ala Ile Ser Trp Glu Gly His Ile
 65 70 75 80
 Val Val Tyr Ser Ser Thr Glu Glu Lys Thr Thr Leu Lys Glu Arg Met
 85 90 95
 His Tyr Ile Cys Phe Ser Ile Asn Gly Lys Tyr Leu Gly Ser Gln Ile
 100 105 110
 Leu Lys Glu Gln Val Ser Asp Ile Cys Ile Ile Gly Glu His Ile Val
 115 120 125
 Thr Gly Ser Ile Gln Gly Phe Leu Ser Ile Arg Asp Leu His Ser Leu
 130 135 140

```

Asn Leu Ser Ile Asn Pro Leu Ala Met Arg Leu Pro Ile His Cys Val
145          150          155          160
Cys Val Thr Lys Glu Tyr Ser His Ile Leu Val Gly Leu Glu Asp Gly
          165          170          175
Lys Leu Ile Val Val Gly Val Gly Lys Pro Ala Glu Val Lys Pro Ser
          180          185          190
Ile Ser Asn Phe Ile Ser His Ala Val Gly Asp Tyr Phe Gly Ser Pro
          195          200          205
Ser Phe Gln Leu Ile Glu Lys Ser Pro Leu Gly Ile Asn Lys Leu Lys
          210          215          220
Ala Lys Phe Asp Phe Ser Lys Gly Ser Lys
225          230          234

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<210> 1924
<211> 292
<212> PRT
<213> Homo sapiens

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<400> 1924
Met Asp Thr Leu Glu Glu Val Thr Trp Ala Asn Gly Ser Thr Ala Leu
1          5          10          15
Pro Pro Pro Leu Ala Pro Asn Ile Ser Val Pro His Arg Cys Leu Leu
          20          25          30
Leu Leu Tyr Glu Asp Ile Gly Thr Ser Arg Val Arg Tyr Trp Asp Leu
          35          40          45
Leu Leu Leu Ile Pro Asn Val Leu Phe Leu Ile Phe Leu Leu Trp Lys
          50          55          60
Leu Pro Ser Ala Arg Ala Lys Ile Arg Ile Thr Ser Ser Pro Ile Phe
          65          70          75          80
Ile Thr Phe Tyr Ile Leu Val Phe Val Val Ala Leu Val Gly Ile Ala
          85          90          95
Arg Ala Val Val Ser Met Thr Val Ser Thr Ser Asn Ala Ala Thr Val
          100          105          110
Ala Asp Lys Ile Leu Trp Glu Ile Thr Arg Phe Phe Leu Leu Ala Ile
          115          120          125
Glu Leu Ser Val Ile Ile Leu Gly Leu Ala Phe Gly His Leu Glu Ser
          130          135          140
Lys Ser Ser Ile Lys Arg Val Leu Ala Ile Thr Thr Val Leu Ser Leu
          145          150          155          160
Ala Tyr Ser Val Thr Gln Gly Thr Leu Glu Ile Leu Tyr Pro Asp Ala
          165          170          175
His Leu Ser Ala Glu Asp Phe Asn Ile Tyr Gly His Gly Gly Arg Gln
          180          185          190
Phe Trp Leu Val Ser Ser Cys Phe Phe Phe Leu Val Tyr Ser Leu Val
          195          200          205
Val Ile Leu Pro Lys Thr Pro Leu Lys Glu Arg Ile Ser Leu Pro Ser
          210          215          220
Arg Arg Ser Phe Tyr Val Tyr Ala Gly Ile Leu Ala Leu Leu Asn Leu
          225          230          235          240
Leu Gln Gly Leu Gly Ser Val Leu Leu Cys Phe Asp Ile Ile Glu Gly
          245          250          255
Leu Cys Cys Val Asp Ala Thr Thr Phe Leu Tyr Phe Ser Phe Phe Ala
          260          265          270
Pro Leu Ile Tyr Val Ala Phe Leu Arg Gly Phe Phe Gly Ser Glu Pro
          275          280          285
Lys Ile Leu Phe
          290          292

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<210> 1925

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<211> 175
 <212> PRT
 <213> Homo sapiens

<400> 1925
 Gly Cys Trp Trp Arg His Pro Trp Leu Ala Ser Gln Arg Asp Cys Leu
 1 5 10 15
 Asp Cys Arg Ile Gln Leu Ala Glu Lys Phe Val Lys Ala Val Ser Lys
 20 25 30
 Pro Ser Arg Pro Asp Met Asn Pro Ile Arg Val Lys Glu Val Tyr Arg
 35 40 45
 Leu Glu Glu Met Glu Lys Ile Phe Val Arg Leu Glu Met Lys Ile Ile
 50 55 60
 Lys Gly Ser Ser Gly Thr Pro Lys Leu Ser Tyr Thr Gly Arg Asp Asp
 65 70 75 80
 Arg His Phe Val Pro Met Gly Leu Tyr Ile Val Arg Thr Val Asn Glu
 85 90 95
 Pro Trp Thr Met Gly Phe Ser Lys Ser Phe Lys Lys Lys Phe Phe Tyr
 100 105 110
 Asn Lys Lys Thr Lys Asp Ser Thr Phe Asp Leu Pro Ala Asp Ser Ile
 115 120 125
 Ala Pro Phe His Ile Cys Tyr Tyr Gly Arg Leu Phe Trp Glu Trp Gly
 130 135 140
 Asp Gly Ile Arg Val His Asp Ser Gln Lys Pro Gln Asp Gln Asp Lys
 145 150 155 160
 Leu Ser Lys Glu Asp Val Leu Ser Phe Ile Gln Met His Arg Ala
 165 170 175

<210> 1926
 <211> 148
 <212> PRT
 <213> Homo sapiens

<400> 1926
 Gln Val Glu Gly Arg Gln Gly Arg Glu Val Lys Arg Thr Ala Trp Arg
 1 5 10 15
 Ile Ser Pro Val Trp Arg Pro Ala Arg Cys Arg Arg Arg Ser Thr Pro
 20 25 30
 Gln Pro Pro Glu Pro Gly Ala Gln Gln Glu Arg His Arg Gln Gly
 35 40 45
 Glu Ala Pro Met Gln Ala Leu Asp Pro Arg Ala Glu Pro Gly Pro Gln
 50 55 60
 Ala Gln Ser His Ala Ala Cys Gln Pro Glu Pro Glu Pro Pro Arg Val
 65 70 75 80
 Leu Leu Asp Pro Thr Ala Ala Arg Gly Gly Val Gln Gly Arg Pro Gly
 85 90 95
 Leu Ser Arg His Pro Gly Leu Ala Pro His Pro Gln Thr His Thr Pro
 100 105 110
 Trp Pro Gln Ser Gly Arg Leu Pro Cys Ala Ser Glu Pro Leu Pro Leu
 115 120 125
 Gly Gly Ile Arg Pro Thr Pro Gly Leu Glu Pro Lys Gly Arg Asp Leu
 130 135 140
 Met
 145

<210> 1927
 <211> 95
 <212> PRT

<213> Homo sapiens

<400> 1927

```

Ser Ala Pro Pro Lys Lys Lys Asn Gly Val Leu Phe Leu Ser Pro Arg
 1          5          10          15
Leu Lys Ser Ser Gly Ala Ile Trp Val His Ser Thr Pro Thr Leu Trp
          20          25          30
Ala Ser Ser Asn Ser Arg Ala Ser Thr Pro Lys Val Ala Gly Ile Thr
          35          40          45
Gly Ala Arg Pro His Ala Arg Ile Ile Phe Val Phe Leu Ile Glu Met
          50          55          60
Gly Phe His Asn Val Gly Gln Ala Gly Leu Asp Thr Leu Thr Leu Val
          65          70          75          80
Ile. Cys Pro Pro Gln Pro Pro Lys Leu Leu Gly Leu Gln Met
          85          90          94

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<210> 1928

<211> 76

<212> PRT

<213> Homo sapiens

<400> 1928

```

Phe Phe Phe Phe Leu Lys Lys Ser Arg Cys Val Thr Gln Ala Gly Val
 1          5          10          15
Gln Gly Pro Ile Ser Leu His Pro Pro Pro Gly Phe Lys Arg Phe
          20          25          30
Ser Arg Leu Ser Leu Leu Ser Ser Trp Asp Tyr Arg His Pro His Ala
          35          40          45
Ala Asn Phe Cys Ile Phe Ser Arg Asp Gly Val Ser Pro Tyr Trp Ser
          50          55          60
Gly Trp Ser Arg Thr Pro Asp Leu Arg
          65          70          73

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<210> 1929

<211> 75

<212> PRT

<213> Homo sapiens

<400> 1929

```

Phe Glu Thr Glu Ser His Ser Val Thr Gln Ala Gly Met Gln Trp His
 1          5          10          15
Asn Leu Gly Ser Leu Gln Pro Met Pro Pro Gly Leu Lys Arg Phe Ser
          20          25          30
Cys Leu Arg Leu Gln Ser Ser Trp Asp His Arg His Ala Pro Pro His
          35          40          45
Leu Ala His Phe Cys Ile Phe Ser Arg Asp Gly Val Ser Pro Cys Trp
          50          55          60
Pro Gly Trp Ser Ser Thr Pro Asp Leu Lys
          65          70          74

```

<210> 1930

<211> 107

<212> PRT

<213> Homo sapiens

<400> 1930

```

Ser Arg Leu Lys Pro Tyr Ser Thr Asn Val Thr Ala Lys Lys Leu Pro
 1           5           10           15
Ala Thr Asn Ile Pro Asn Leu Asp Cys Phe Thr Ala Lys Leu Tyr Gln
           20           25           30
Val Phe Lys Lys Gly Ile Ile His Ile Leu His Glu Leu Phe Gln Asn
           35           40           45
Lys Glu Glu Gly Ala Phe Pro Asn Ser Phe Tyr Glu Ala Ser Phe Thr
           50           55           60
Leu Arg Pro Lys Ser Asp Arg Asp Ile Ala Lys Glu Glu Ser Tyr Ser
65           70           75           80
Thr Ile Ser Leu Leu Ser Thr Asp Thr Lys Ile Leu Met Ser Lys Tyr
           85           90           95
Lys Gln Leu Lys Ser Ser Asp Leu
           100           104

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<210> 1931

<211> 224

<212> PRT

<213> Homo sapiens

<400> 1931

```

Val Leu Val His Arg Gln Cys Gly Gly Ile Leu Arg Leu Arg Arg Lys
 1           5           10           15
Glu Ala Val Ser Val Leu Asp Ser Ala Asp Ile Glu Val Thr Asp Ser
           20           25           30
Arg Leu Pro His Ala Thr Ile Val Asp His Arg Pro Gln His Arg Trp
           35           40           45
Leu Glu Thr Cys Asn Ala Pro Pro Gln Leu Ile Gln Gly Lys Ala Arg
           50           55           60
Ser Ala Pro Lys Pro Ser Gln Ala Ser Gly His Phe Ser Val Glu Leu
65           70           75           80
Val Arg Gly Tyr Ala Gly Phe Gly Leu Thr Leu Gly Gly Gly Arg Asp
           85           90           95
Val Ala Gly Asp Thr Pro Leu Ala Val Arg Gly Leu Leu Lys Asp Gly
           100           105           110
Pro Ala Gln Arg Cys Gly Arg Leu Glu Val Gly Asp Leu Val Leu His
           115           120           125
Ile Asn Gly Glu Ser Thr Gln Gly Leu Thr His Ala Gln Ala Val Glu
130           135           140
Arg Ile Arg Ala Gly Gly Pro Gln Leu His Leu Val Ile Arg Arg Pro
145           150           155           160
Leu Glu Thr His Pro Gly Lys Pro Arg Gly Val Gly Glu Pro Arg Lys
           165           170           175
Gly Val Val Pro Ser Trp Pro Asp Arg Ser Pro Asp Pro Gly Gly Pro
           180           185           190
Glu Val Thr Gly Ser Arg Ser Ser Ser Thr Ser Leu Val Gln His Pro
           195           200           205
Pro Ser Arg Thr Thr Leu Lys Lys Thr Arg Gly Ser Pro Glu
210           215           220           222

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<210> 1932

<211> 86

<212> PRT

<213> Homo sapiens

<400> 1932

```

Val Leu Tyr Ile Arg Lys Lys Lys Arg Leu Glu Lys Leu Arg His Gln
 1           5           10           15
Leu Met Pro Met Tyr Asn Phe Asp Pro Thr Glu Glu Gln Asp Glu Leu
          20           25           30
Glu Gln Glu Leu Leu Glu His Gly Arg Asp Ala Ala Ser Val Gln Ala
          35           40           45
Ala Thr Ser Val Gln Ala Met Gln Gly Lys Thr Thr Leu Pro Ser Gln
          50           55           60
Gly Pro Leu Gln Arg Pro Ser Arg Leu Val Phe Thr Asp Val Ala Asn
65           70           75           80
Ala Ile His Val
          84

```

```

<210> 1933
<211> 78
<212> PRT
<213> Homo sapiens

```

```

<400> 1933
Ala Pro Gly Pro Pro Val Pro Pro Pro Gly Ser Pro Pro Glu Gln Met
 1           5           10           15
Pro Gly Pro Cys Pro Ala Ser Met Pro Pro Asp Pro Pro Pro Gly Ser
          20           25           30
Pro Pro Glu Gln Met Pro Gly Pro Cys Pro Val Ser Ala Pro Pro Gly
          35           40           45
Pro Pro Pro Gly Ser Pro Pro Glu Gln Met Pro Gly Pro Cys Pro Val
          50           55           60
Ser Ala Pro Pro Ala Leu Leu Gln Asp Thr Ser Val
65           70           75           76

```

```

<210> 1934
<211> 212
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(209)
<223> Xaa = any amino acid or nothing

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```

<400> 1934
Ser Ala Thr Pro Gln Gln Pro Ser Ala Pro Gln His Gln Gly Thr Leu
 1           5           10           15
Asn Gln Pro Pro Val Pro Gly Met Asp Glu Ser Met Ser Tyr Gln Ala
          20           25           30
Pro Pro Gln Gln Leu Pro Ser Ala Gln Pro Pro Gln Pro Ser Asn Pro
          35           40           45
Pro His Gly Ala His Thr Leu Asn Ser Gly Pro Gln Pro Gly Thr Ala
          50           55           60
Pro Ala Thr Gln His Ser Gln Ala Gly Pro Ala Thr Gly Gln Ala Tyr
65           70           75           80
Gly Pro His Thr Tyr Thr Glu Pro Ala Lys Pro Lys Lys Gly Gln Gln
          85           90           95
Leu Trp Asn Arg Met Lys Pro Ala Pro Gly Thr Glu Val Ser Ser Ser
          100           105           110
Thr Ser Arg Ser Asp Pro Leu Leu Pro Pro Arg Ala Leu Ala Pro
          115           120           125
Thr Gln Arg Ala Ser Thr Val Val Leu Ala Pro Ser Pro Thr Ser Glu
130           135           140

```

Lys Val Gln Asn His Ser Gly Ser Ser Ala Arg Gly Asn Leu Ser Gly
 145 150 155 160
 Lys Pro Asp Asp Trp Pro Leu Gly His Glu Arg Val Cys Gly Ala Leu
 165 170 175
 Leu His Arg Leu Xaa Val Gly Gly Gly Gln Gly Pro His Gly Lys Ala
 180 185 190
 Ala Gln Gly Gly Ala Ala Gly Ala Ala Gly Arg Leu Gly Leu Tyr
 195 200 205
 His
 209

<210> 1935
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 1935
 His Lys Pro Val Thr Asn Ser Arg Asp Thr Gln Glu Val Pro Leu Glu
 1 5 10 15
 Lys Ala Lys Gln Val Leu Lys Ile Ile Ala Thr Phe Lys His Thr Thr
 20 25 30
 Ser Ile Phe Asp Asp Phe Ala His Tyr Glu Lys Arg Gln
 35 40 45

<210> 1936
 <211> 403
 <212> PRT
 <213> Homo sapiens

<400> 1936
 Leu Asn Ala Glu Ser Tyr Val Ser Phe Thr Thr Lys Leu Asp Ile Pro
 1 5 10 15
 Thr Ala Ala Lys Tyr Glu Tyr Gly Val Pro Leu Gln Thr Ser Asp Ser
 20 25 30
 Phe Leu Arg Phe Pro Ser Ser Leu Thr Ser Ser Leu Cys Thr Asp Asn
 35 40 45
 Asn Pro Ala Ala Phe Leu Val Asn Gln Ala Val Lys Cys Thr Arg Lys
 50 55 60
 Ile Asn Leu Glu Gln Cys Glu Glu Ile Glu Ala Leu Ser Met Ala Phe
 65 70 75 80
 Tyr Ser Ser Pro Glu Ile Leu Arg Val Pro Asp Ser Arg Lys Lys Val
 85 90 95
 Pro Ile Thr Val Gln Ser Ile Val Ile Gln Ser Leu Asn Lys Thr Leu
 100 105 110
 Thr Arg Arg Glu Asp Thr Asp Val Leu Gln Pro Thr Leu Val Asn Ala
 115 120 125
 Gly His Phe Ser Leu Cys Val Asn Val Val Leu Glu Val Lys Tyr Ser
 130 135 140
 Leu Thr Tyr Thr Asp Ala Gly Glu Val Thr Lys Ala Asp Leu Ser Phe
 145 150 155 160
 Val Leu Gly Thr Val Ser Ser Val Val Val Pro Leu Gln Gln Lys Phe
 165 170 175
 Glu Ile His Phe Leu Gln Glu Asn Thr Gln Pro Val Pro Leu Ser Gly
 180 185 190
 Asn Pro Gly Tyr Val Val Gly Leu Pro Leu Ala Ala Gly Phe Gln Pro
 195 200 205
 His Lys Gly Ser Gly Ile Ile Gln Thr Thr Asn Arg Tyr Gly Gln Leu
 210 215 220

```

Thr Ile Leu His Ser Thr Thr Glu Gln Asp Cys Leu Ala Leu Glu Gly
225                230                235                240
Val Arg Thr Pro Val Leu Phe Gly Tyr Thr Met Gln Ser Gly Cys Lys
                245                250                255
Leu Arg Leu Thr Gly Ala Leu Pro Cys Gln Leu Val Ala Gln Lys Val
                260                265                270
Lys Ser Leu Leu Trp Gly Gln Gly Phe Pro Asp Tyr Val Ala Pro Phe
                275                280                285
Gly Asn Ser Gln Gly Pro Ala Asp Met Leu Asp Trp Val Pro Ile His
                290                295                300
Phe Ile Thr Gln Ser Phe Asn Arg Lys Asp Ser Cys Gln Leu Pro Gly
305                310                315                320
Ala Leu Val Ile Glu Val Lys Trp Thr Lys Tyr Gly Ser Leu Leu Asn
                325                330                335
Pro Gln Ala Lys Ile Val Asn Val Thr Ala Asn Leu Ile Ser Ser Ser
                340                345                350
Phe Pro Glu Ala Asn Ser Gly Asn Glu Arg Thr Ile Leu Ile Ser Thr
                355                360                365
Ala Val Thr Phe Val Asp Val Ser Ala Pro Ala Glu Ala Gly Phe Arg
                370                375                380
Ala Pro Pro Ala Ile Asn Ala Arg Leu Pro Phe Asn Phe Phe Phe Pro
385                390                395                400
Phe Val
402

```

<210> 1937
 <211> 82
 <212> PRT
 <213> Homo sapiens

```

<400> 1937
Leu Leu Gly Arg Ala Ser Ala Cys Leu Gln Leu Gln Ser Ser Trp Asp
1                5                10                15
His Arg Pro Met Leu Pro Tyr Leu Ala Asn Phe Val Phe Cys Lys Asp
                20                25                30
Arg Ser Phe Thr Trp Leu Pro Arg Leu Val Leu Asn Ser Trp Leu Gln
                35                40                45
Val Ile Leu Leu Pro Trp Pro Pro Thr Gly Cys Asp Asn Lys His Glu
                50                55                60
Pro Pro Cys Pro Ala Thr Lys Arg Arg His Ser Gly Ser Ile
65                70                75                78

```

<210> 1938
 <211> 89
 <212> PRT
 <213> Homo sapiens

```

<400> 1938
His Asp Leu Gly Ser Leu Gln Pro Pro Pro Pro Gly Phe Lys Arg Phe
1                5                10                15
Ser Cys Leu Ser Leu Pro Ser Ser Trp Asp Tyr Arg Leu Met Pro Pro
                20                25                30
Cys Pro Ala Asn Phe Cys Ile Ile Ile Ile Asp Phe Leu Val Glu Thr
                35                40                45
Gly Phe His His Val Gly Gln Ala Ser His Glu Leu Leu Thr Ser Gly
                50                55                60
Asp Pro Pro Thr Ser Ala Ser Gln Ser Ala Gly Ile Thr Gly Met Ser
65                70                75                80

```

Tyr His Thr Trp Phe Gly Glu Ser
 , 85 88

<210> 1939
 <211> 197
 <212> PRT
 <213> Homo sapiens

<400> 1939
 Ala Pro Val Thr Thr Ser Pro Arg Val Gly Gln Pro Trp Arg Thr Ala
 1 5 10 15
 Leu Ala Leu Arg Ser Leu Tyr Arg Ala Arg Pro Ser Leu Arg Cys Pro
 20 25 30
 Pro Val Glu Leu Pro Trp Ala Pro Arg Arg Gly His Arg Leu Ser Pro
 35 40 45
 Ala Asp Asp Glu Leu Tyr Gln Arg Thr Arg Ile Ser Leu Leu Gln Arg
 50 55 60
 Glu Ala Ala Gln Ala Met Tyr Ile Asp Ser Tyr Asn Ser Arg Gly Phe
 65 70 75 80
 Met Ile Asn Gly Asn Arg Val Leu Gly Pro Cys Ala Leu Leu Pro His
 85 90 95
 Ser Val Val Gln Trp Asn Val Gly Ser His Gln Asp Ile Thr Glu Asp
 100 105 110
 Ser Phe Ser Leu Phe Trp Leu Leu Glu Pro Arg Ile Glu Ile Val Val
 115 120 125
 Val Gly Thr Gly Asp Arg Thr Glu Arg Leu Gln Ser Gln Val Leu Gln
 130 135 140
 Ala Met Arg Gln Arg Gly Ile Ala Val Glu Val Gln Asp Thr Pro Asn
 145 150 155 160
 Ala Cys Ala Thr Phe Asn Phe Leu Cys His Glu Gly Arg Val Thr Gly
 165 170 175
 Ala Ala Leu Ile Pro Pro Pro Gly Gly Thr Ser Leu Thr Ser Leu Gly
 180 185 190
 Gln Ala Ala Gln
 195 196

<210> 1940
 <211> 159
 <212> PRT
 <213> Homo sapiens

<400> 1940
 Phe Phe Phe Phe Glu Thr Glu Ser Arg Ser Val Ala Gln Ala Gly Val
 1 5 10 15
 Gln Trp Arg Asp Leu Gly Ser Leu Gln Ala Pro Pro Pro Gly Phe Thr
 20 25 30
 Pro Phe Ser Cys Leu Ser Leu Pro Ser Ser Trp Asp Tyr Arg Pro
 35 40 45
 Pro Leu Arg Pro Ala Asn Phe Phe Val Phe Leu Val Glu Thr Gly Phe
 50 55 60
 Pro Arg Phe Ser Arg Asp Gly Leu Asp Leu Leu Thr Ser Gly Asp Pro
 65 70 75 80
 Pro Thr Ser Ala Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His Arg
 85 90 95
 Ala Arg Pro Lys Arg Ile Gly Glu Pro Arg Arg Lys Cys Gly Asn Ala
 100 105 110
 Val Val Trp Pro Ser Thr Ser Leu Gly Asp His Arg Val Thr Ser Val
 115 120 125

Pro His Gln Gly Gly Leu Pro Gly Pro Ile Arg Val Ala Pro Ser Ser
 130 135 140
 Ala Gly Gln Arg Glu Ala Ser Gln Gly Pro Pro Gly Arg
 145 150 155 157

<210> 1941
 <211> 111
 <212> PRT
 <213> Homo sapiens

<400> 1941
 Ile Ala Ala Arg Phe Thr Leu Ala Lys Thr Trp Asn Gln Leu Lys Arg
 1 5 10 15
 Pro Thr Met Ile Asp Ser Ile Lys Lys Thr Arg Tyr Ile Tyr Thr Met
 20 25 30
 Glu Tyr Tyr Ala Asp Thr Glu Arg Asn Glu Ile Met Ser Phe Ala Gly
 35 40 45
 Thr Trp Val Glu Leu Glu Ala Ile Ile Leu Ser Lys Leu Met Leu Lys
 50 55 60
 Asp Asn Trp Val Glu Asp Thr Ile Pro Gln Gly Ala Val Pro Cys Thr
 65 70 75 80
 Ala Thr Ala Glu Gly Met Lys Arg Leu Leu Phe Ala Leu Glu Pro Trp
 85 90 95
 Asp Ser Ser Cys Phe Pro His Pro Ser Ser Gly Val
 100 105 108

<210> 1942
 <211> 306
 <212> PRT
 <213> Homo sapiens

<400> 1942
 Arg Thr Arg Pro Leu Phe Ser Gly Arg Pro Thr Arg Pro Val Cys Thr
 1 5 10 15
 Met Ser Asp Glu Arg Arg Leu Pro Gly Ser Ala Val Gly Trp Leu Val
 20 25 30
 Cys Gly Gly Leu Ser Leu Leu Ala Asn Ala Trp Gly Ile Leu Ser Val
 35 40 45
 Gly Ala Lys Gln Lys Lys Trp Lys Pro Leu Glu Phe Leu Leu Cys Thr
 50 55 60
 Leu Ala Ala Thr His Met Leu Asn Val Ala Val Pro Ile Ala Thr Tyr
 65 70 75 80
 Ser Val Val Gln Leu Arg Arg Gln Arg Pro Asp Phe Glu Trp Asn Glu
 85 90 95
 Gly Leu Cys Lys Val Phe Val Ser Thr Phe Tyr Thr Leu Thr Leu Ala
 100 105 110
 Thr Cys Phe Ser Val Thr Ser Leu Ser Tyr His Arg Met Trp Met Val
 115 120 125
 Cys Trp Pro Val Asn Tyr Arg Leu Ser Asn Ala Lys Lys Gln Ala Gly
 130 135 140
 His Thr Val Met Gly Ile Trp Met Gly Ser Phe Ile Leu Ser Ala Leu
 145 150 155 160
 Pro Ala Val Gly Trp His Asp Thr Ser Glu Arg Phe Tyr Thr His Gly
 165 170 175
 Cys Arg Phe Ile Val Ala Glu Ile Gly Leu Gly Phe Gly Val Cys Phe
 180 185 190
 Leu Leu Leu Val Gly Gly Ser Val Ala Met Gly Val Ile Cys Thr Ala
 195 200 205

```

Ile Ala Leu Phe Gln Thr Leu Ala Val Gln Val Gly Arg Gln Ala Asp
 210          215          220
His Arg Ala Phe Thr Val Pro Thr Ile Val Val Glu Asp Ala Gln Gly
225          230          235          240
Lys Arg Arg Ser Ser Ile Asp Gly Ser Glu Pro Ala Lys Thr Ser Leu
          245          250          255
Gln Thr Thr Gly Leu Val Thr Thr Ile Val Phe Ile Tyr Asp Cys Leu
          260          265          270
Met Gly Phe Pro Val Leu Gly Pro Phe Ser Leu Ala Asp Thr His Leu
          275          280          285
Ser Asp Leu Pro Tyr Thr Trp Gly Asp Arg Asp Ser Gly Gly Ala Cys
          290          295          300
Val Met
305 306

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<210> 1943
<211> 65
<212> PRT
<213> Homo sapiens

```

```

<400> 1943
Phe Phe Phe Glu Ala Glu Ser Cys Ser Val Pro Gln Ala Gly Val Gln
 1          5          10          15
Arg Pro Asp Leu Gly Trp Leu His Ala Pro Pro Pro Gly Ser Cys His
          20          25          30
Phe Pro Ala Ser Ala Ser Gln Val Ala Gly Thr Thr His Ala Arg His
          35          40          45
His Thr Gln Leu Ile Phe Ala Phe Leu Val Glu Asn Gly Leu Cys
          50          55          60          63

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<210> 1944
<211> 227
<212> PRT
<213> Homo sapiens

```

```

<400> 1944
Lys Met Ala Gly Gly Val Arg Pro Leu Arg Gly Leu Arg Ala Leu Cys
 1          5          10          15
Arg Val Leu Leu Phe Leu Ser Gln Phe Cys Ile Leu Ser Gly Gly Glu
          20          25          30
Ser Thr Glu Ile Pro Pro Tyr Val Met Lys Cys Pro Ser Asn Gly Leu
          35          40          45
Cys Ser Arg Leu Pro Ala Asp Cys Ile Asp Cys Thr Thr Asn Phe Ser
          50          55          60
Cys Thr Tyr Gly Lys Pro Val Thr Phe Asp Cys Ala Val Lys Pro Ser
          65          70          75          80
Val Thr Cys Val Asp Gln Asp Phe Lys Ser Gln Lys Asn Phe Ile Ile
          85          90          95
Asn Met Thr Cys Arg Phe Cys Trp Gln Leu Pro Glu Thr Asp Tyr Glu
          100          105          110
Cys Thr Asn Ser Thr Ser Cys Met Thr Val Ser Cys Pro Arg Gln Arg
          115          120          125
Tyr Pro Ala Asn Cys Thr Val Arg Asp His Val His Cys Leu Gly Asn
          130          135          140
Arg Thr Phe Pro Lys Met Leu Tyr Cys Asn Trp Thr Gly Gly Tyr Lys
          145          150          155          160
Trp Val Tyr Gly Leu Trp Leu Leu Arg His His Pro Arg Trp Gly Leu
          165          170          175

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Gly Ala Asp Arg Phe Tyr Leu Gly Pro Val Ala Gly Thr Ala Ser Gly
 180 185 190
 Lys Leu Phe Ser Phe Gly Gly Leu Gly Ile Trp Thr Leu Ile Asp Val
 195 200 205
 Leu Leu Ile Gly Val Gly Tyr Val Gly Pro Ala Asp Gly Ser Leu Tyr
 210 215 220
 Ile
 225

<210> 1945
 <211> 92
 <212> PRT
 <213> Homo sapiens

<400> 1945
 Phe Phe Phe Lys Met Glu Ser Tyr Ser Val Ala Arg Leu Glu Cys Ser
 1 5 10 15
 Gly Ala Ile Ser Ala Pro Cys Asn Leu His Leu Leu Gly Ser Asn Asn
 20 25 30
 Ser Pro Ala Ser Ala Ser Arg Val Ala Gly Asn Ile Gly Ala Arg His
 35 40 45
 His Thr Gln Gln Ile Phe Val Leu Leu Val Gln Met Arg Val His Tyr
 50 55 60
 Val Gly Gln Asp Gly Leu Asp Leu Leu Asn Leu Met Ile His Pro Pro
 65 70 75 80
 Arg Ser Pro Lys Val Leu Gly Leu Gln Ala
 85 90

<210> 1946
 <211> 562
 <212> PRT
 <213> Homo sapiens

<400> 1946
 His Ala Ser Asp His Leu Tyr Pro Asn Phe Leu Val Asn Glu Leu Ile
 1 5 10 15
 Leu Lys Gln Lys Gln Arg Phe Glu Glu Lys Arg Phe Lys Leu Asp His
 20 25 30
 Ser Val Ser Ser Thr Asn Gly His Arg Trp Gln Ile Phe Gln Asp Trp
 35 40 45
 Leu Gly Thr Asp Gln Asp Asn Leu Asp Leu Ala Asn Val Asn Leu Met
 50 55 60
 Leu Glu Leu Leu Val Gln Lys Lys Lys Gln Leu Glu Ala Glu Ser His
 65 70 75 80
 Ala Ala Gln Leu Gln Ile Leu Met Glu Phe Leu Lys Val Ala Arg Arg
 85 90 95
 Asn Lys Arg Glu Gln Leu Glu Gln Ile Gln Lys Glu Leu Ser Val Leu
 100 105 110
 Glu Glu Asp Ile Lys Arg Val Glu Glu Met Ser Gly Leu Tyr Ser Pro
 115 120 125
 Val Ser Glu Asp Ser Thr Val Pro Gln Phe Glu Ala Pro Ser Pro Ser
 130 135 140
 His Ser Ser Ile Ile Asp Ser Thr Glu Tyr Ser Gln Pro Pro Gly Phe
 145 150 155 160
 Ser Gly Ser Ser Gln Thr Lys Lys Gln Pro Trp Tyr Asn Ser Thr Leu
 165 170 175
 Ala Ser Arg Arg Lys Arg Leu Thr Ala His Phe Glu Asp Leu Glu Gln
 180 185 190

Cys Tyr Phe Ser Thr Arg Met Ser Arg Ile Ser Asp Asp Ser Arg Thr
 195 200 205
 Ala Ser Gln Leu Asp Glu Phe Gln Glu Cys Leu Ser Lys Phe Thr Arg
 210 215 220
 Tyr Asn Ser Val Arg Pro Leu Ala Thr Leu Ser Tyr Ala Ser Asp Leu
 225 230 235 240
 Tyr Asn Gly Ser Gln Tyr Lys Ser Leu Val Phe Glu Phe Asp Arg Asp
 245 250 255
 Cys Asp Tyr Phe Ala Ile Ala Gly Val Thr Lys Lys Ile Lys Val Tyr
 260 265 270
 Glu Tyr Asp Thr Val Ile Gln Asp Ala Val Asp Ile His Tyr Pro Glu
 275 280 285
 Asn Glu Met Thr Cys Asn Ser Lys Ile Ser Cys Ile Ser Trp Ser Ser
 290 295 300
 Tyr His Lys Asn Leu Leu Ala Ser Ser Asp Tyr Glu Gly Thr Val Ile
 305 310 315 320
 Leu Trp Asp Gly Phe Thr Gly Gln Arg Ser Lys Val Tyr Gln Glu His
 325 330 335
 Glu Lys Arg Cys Trp Ser Val Asp Phe Asn Leu Met Asp Pro Lys Leu
 340 345 350
 Leu Ala Ser Gly Ser Asp Asp Ala Lys Val Lys Leu Trp Ser Thr Asn
 355 360 365
 Leu Asp Asn Ser Val Ala Ser Ile Glu Ala Lys Ala Asn Val Cys Cys
 370 375 380
 Val Lys Phe Ser Pro Ser Ser Arg Tyr His Leu Ala Phe Gly Cys Ala
 385 390 395 400
 Asp His Cys Val His Tyr Tyr Asp Leu Arg Asn Thr Lys Gln Pro Ile
 405 410 415
 Met Val Phe Lys Gly His Arg Lys Ala Val Ser Tyr Ala Lys Phe Val
 420 425 430
 Ser Gly Glu Glu Ile Val Ser Ala Ser Thr Asp Ser Gln Leu Lys Leu
 435 440 445
 Trp Asn Val Gly Lys Pro Tyr Cys Leu Arg Ser Phe Lys Gly His Ile
 450 455 460
 Asn Glu Lys Asn Phe Val Gly Leu Ala Ser Asn Gly Asp Tyr Ile Ala
 465 470 475 480
 Cys Gly Ser Glu Asn Asn Ser Leu Tyr Leu Tyr Tyr Lys Gly Leu Ser
 485 490 495
 Lys Thr Leu Leu Thr Phe Lys Phe Asp Thr Val Lys Ser Val Leu Asp
 500 505 510
 Lys Asp Arg Lys Glu Asp Asp Thr Asn Glu Phe Val Ser Ala Val Cys
 515 520 525
 Trp Arg Ala Leu Pro Asp Gly Glu Ser Asn Val Leu Ile Ala Ala Asn
 530 535 540
 Ser Gln Gly Thr Ile Lys Val Leu Glu Leu Val
 545 550 555

<210> 1947
 <211> 96
 <212> PRT
 <213> Homo sapiens

<400> 1947
 Arg Ser Leu Ala Leu Ser Pro Gly Leu Glu Cys Ser Gly Met Ile Ser
 1 5 10 15
 Ala His Cys Asn Leu His Leu Leu Gly Ser Ser Asp Pro Pro Thr Ser
 20 25 30
 Ala Ser Gln Val Ala Glu Ile Thr Ser Val Arg His His Thr Trp Leu
 35 40 45
 Ile Phe Cys Ile Leu Gly Gln Met Gly Phe His His Val Gly Glu Gln
 50 55 60

Ala Gly Leu Glu Leu Leu Thr Ser Trp Asp Pro Ala Ile Leu Pro Ser
 65 70 75 80
 Gln Ser Ala Gly Ile Ile Gly Met Ser Pro His Ala Trp Pro Pro
 85 90 95

<210> 1948
 <211> 128
 <212> PRT
 <213> Homo sapiens

<400> 1948
 Phe Asp Thr Glu Phe Val Asn Ile Gly Gly Asp Phe Asp Ala Ala Ala
 1 5 10 15
 Gly Val Phe Arg Cys Arg Leu Pro Gly Ala Tyr Phe Phe Ser Phe Thr
 20 25 30
 Leu Gly Lys Leu Pro Arg Lys Thr Leu Ser Val Lys Leu Met Lys Asn
 35 40 45
 Arg Asp Glu Val Gln Ala Met Ile Tyr Asp Asp Gly Ser Ser Arg Arg
 50 55 60
 Arg Glu Met Gln Ser Gln Ser Val Met Leu Ala Leu Arg Arg Gly Asp
 65 70 75 80
 Ala Val Trp Leu Leu Ser His Asp His Asp Gly Tyr Gly Ala Tyr Ser
 85 90 95
 Asn His Gly Lys Tyr Ile Thr Phe Ser Gly Phe Leu Val Tyr Pro Asp
 100 105 110
 Leu Ala Pro Ala Ala Pro Pro Gly Leu Gly Ala Ser Glu Leu Leu
 115 120 125 127

<210> 1949
 <211> 138
 <212> PRT
 <213> Homo sapiens

<400> 1949
 Met Gly Gln Pro Ala Pro Tyr Ala Glu Gly Pro Ile Gln Gly Gly Asp
 1 5 10 15
 Ala Gly Glu Leu Cys Lys Cys Asp Phe Leu Val Phe Thr Ser Pro Asn
 20 25 30
 Pro Glu Ala Val Cys Glu Ala Gly Thr Pro Ala Met Phe Gln Thr Ala
 35 40 45
 Trp Arg Gln Met Glu Ser Cys Ser Ile Ala Gln Ala Gly Val Gln Trp
 50 55 60
 Arg Asp Pro Gly Ser Leu His Pro Pro Pro Leu Gly Phe Lys Arg Phe
 65 70 75 80
 Ser Cys Leu Ser Leu Pro Ser Ser Trp Asp Tyr Lys His Ala Pro Pro
 85 90 95
 His Pro Ala Asn Phe Cys Ile Phe Ser Arg Asp Gln Val Ser Pro Cys
 100 105 110
 Trp Pro Gly Trp Ser Arg Ser Leu Asp Leu Val Ile Pro Pro Pro Trp
 115 120 125
 Leu Pro Lys Val Leu Gly Leu Gln Ala
 130 135 137

<210> 1950
 <211> 148
 <212> PRT

<213> Homo sapiens

<400> 1950

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Phe Phe Phe Glu Thr Glu Ser Cys Tyr Val Ala Gln Ala Gly Val Gln
 1           5           10           15
Trp Cys Asp Leu Cys Ser Leu Gln Ala Pro Pro Pro Gly Ser Ser Asp
           20           25           30
Pro Pro Ala Ser Ala Ser Arg Val Ala Gly Thr Thr Gly Ala Arg His
           35           40           45
His Thr Gln Leu Ile Phe Val Phe Leu Val Glu Thr Gly Phe His Met
           50           55           60
Leu Ala Arg Asp Gly Leu Lys Leu Leu Thr Ser Ser Asp Pro Pro Ala
           65           70           75           80
Ser Ala Ser Gln Ser Ser Trp Asp Tyr Arg Arg Glu Pro Pro Arg Leu
           85           90           95
Ala Asn Phe Phe Val Phe Leu Val Glu Thr Gly Ser Arg Tyr Val Ala
           100          105          110
Gln Ala Gly Val Gln Trp Leu Phe Thr Gly Ala Ile Pro Leu Leu Ile
           115          120          125
Ser Thr Gly Val Leu Thr Cys Ser Val Ser Asp Leu Gly Arg Phe Thr
           130          135          140
Pro Pro
145 146

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<210> 1951

<211> 353

<212> PRT

<213> Homo sapiens

<400> 1951

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His Glu Val Gln Glu Ser Ile His Phe Leu Glu Ser Glu Phe Ser Arg
 1           5           10           15
Gly Ile Ser Asp Asn Tyr Thr Leu Ala Leu Ile Thr Tyr Ala Leu Ser
           20           25           30
Ser Val Gly Ser Pro Lys Ala Lys Glu Ala Leu Asn Met Leu Thr Trp
           35           40           45
Arg Ala Glu Gln Glu Gly Gly Met Gln Phe Trp Val Ser Ser Glu Ser
           50           55           60
Lys Leu Ser Asp Ser Trp Gln Pro Arg Ser Leu Asp Ile Glu Val Ala
           65           70           75           80
Ala Tyr Ala Leu Leu Ser His Phe Leu Gln Phe Gln Thr Ser Glu Gly
           85           90           95
Ile Pro Ile Met Arg Trp Leu Ser Arg Gln Arg Asn Ser Leu Gly Gly
           100          105          110
Phe Ala Ser Thr Gln Asp Thr Thr Val Ala Leu Lys Ala Leu Ser Glu
           115          120          125
Phe Ala Ala Leu Met Asn Thr Glu Arg Thr Asn Ile Gln Val Thr Val
           130          135          140
Thr Gly Pro Ser Ser Pro Ser Pro Val Lys Phe Leu Ile Asp Thr His
145          150          155          160
Asn Arg Leu Leu Leu Gln Thr Ala Glu Leu Ala Asp Gly Thr Ala Asn
           165          170          175
Gly Ser Val Ser Ile Ser Ala Asn Gly Phe Gly Phe Ala Ile Cys Gln
           180          185          190
Leu Asn Val Val Tyr Asn Val Lys Ala Ser Gly Ser Ser Arg Arg Arg
           195          200          205
Arg Ser Ile Gln Asn Gln Glu Ala Phe Asp Leu Asp Val Ala Val Lys
           210          215          220
Glu Asn Lys Asp Asp Leu Asn His Val Asp Leu Asn Val Cys Thr Ser
225          230          235          240

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Phe	Ser	Gly	Pro	Gly	Arg	Ser	Gly	Met	Ala	Leu	Met	Glu	Val	Asn	Leu
				245					250					255	
Leu	Ser	Gly	Phe	Met	Val	Pro	Ser	Glu	Ala	Ile	Ser	Leu	Ser	Glu	Thr
			260					265					270		
Val	Lys	Lys	Val	Glu	Tyr	Asp	His	Gly	Lys	Leu	Asn	Leu	Tyr	Leu	Asp
			275				280					285			
Ser	Val	Asn	Glu	Thr	Gln	Phe	Cys	Val	Asn	Ile	Pro	Ala	Val	Arg	Asn
			290			295				300					
Phe	Lys	Val	Ser	Asn	Thr	Gln	Asp	Ala	Ser	Val	Ser	Ile	Val	Asp	Tyr
305					310					315				320	
Tyr	Glu	Pro	Arg	Arg	Gln	Ala	Val	Arg	Ser	Tyr	Asn	Ser	Glu	Val	Lys
				325					330				335		
Leu	Ser	Ser	Cys	Asp	Leu	Cys	Ser	Asp	Val	Gln	Arg	Leu	Pro	Ser	Leu
			340					345				350		352	

<210> 1952

<211> 562

<212> PRT

<213> Homo sapiens

<400> 1952

Met	Arg	Ala	Pro	Gly	Arg	Pro	Ala	Leu	Arg	Pro	Leu	Pro	Leu	Pro	Pro
1				5					10					15	
Leu	Leu	Leu	Leu	Leu	Leu	Ser	Ser	Pro	Trp	Gly	Arg	Ala	Val	Pro	Cys
			20					25					30		
Val	Ser	Gly	Gly	Leu	Pro	Lys	Pro	Ala	Asn	Ile	Thr	Phe	Leu	Ser	Ile
			35				40					45			
Asn	Met	Lys	Asn	Val	Leu	Gln	Trp	Thr	Pro	Pro	Glu	Gly	Leu	Gln	Gly
	50					55					60				
Val	Lys	Val	Thr	Tyr	Thr	Val	Gln	Tyr	Phe	Ile	Tyr	Gly	Gln	Lys	Lys
65					70					75				80	
Trp	Leu	Asn	Lys	Ser	Glu	Cys	Arg	Asn	Ile	Asn	Arg	Thr	Tyr	Cys	Asp
			85					90					95		
Leu	Ser	Ala	Glu	Thr	Ser	Asp	Tyr	Glu	His	Gln	Tyr	Tyr	Ala	Lys	Val
			100					105					110		
Lys	Ala	Ile	Trp	Gly	Thr	Lys	Cys	Ser	Lys	Trp	Ala	Glu	Ser	Gly	Arg
			115				120					125			
Phe	Tyr	Pro	Phe	Leu	Glu	Thr	Gln	Ile	Gly	Pro	Pro	Glu	Val	Ala	Leu
	130					135					140				
Thr	Thr	Asp	Glu	Lys	Ser	Ile	Ser	Val	Val	Leu	Thr	Ala	Pro	Glu	Lys
145					150					155				160	
Trp	Lys	Arg	Asn	Pro	Glu	Asp	Leu	Pro	Val	Ser	Met	Gln	Gln	Ile	Tyr
			165					170					175		
Ser	Asn	Leu	Lys	Tyr	Asn	Val	Ser	Val	Leu	Asn	Thr	Lys	Ser	Asn	Arg
			180					185					190		
Thr	Trp	Ser	Gln	Cys	Val	Thr	Asn	His	Thr	Leu	Val	Leu	Thr	Trp	Leu
			195				200					205			
Glu	Pro	Asn	Thr	Leu	Tyr	Cys	Val	His	Val	Glu	Ser	Phe	Val	Pro	Gly
	210					215					220				
Pro	Pro	Arg	Arg	Ala	Gln	Pro	Ser	Glu	Lys	Gln	Cys	Ala	Arg	Thr	Leu
225					230					235				240	
Lys	Asp	Gln	Ser	Ser	Glu	Phe	Lys	Ala	Lys	Ile	Ile	Phe	Trp	Tyr	Val
			245					250					255		
Leu	Pro	Ile	Ser	Ile	Thr	Val	Phe	Leu	Phe	Ser	Val	Met	Gly	Tyr	Ser
			260				265						270		
Ile	Tyr	Arg	Tyr	Ile	His	Val	Gly	Lys	Glu	Lys	His	Pro	Ala	Asn	Leu
			275				280					285			
Ile	Leu	Ile	Tyr	Gly	Asn	Glu	Phe	Asp	Lys	Arg	Phe	Phe	Val	Pro	Ala
	290					295					300				

Glu Lys Ile Val Ile Asn Phe Ile Thr Leu Asn Ile Ser Asp Asp Ser
 305 310 315 320
 Lys Ile Ser His Gln Asp Met Ser Leu Leu Gly Lys Ser Ser Asp Val
 325 330 335
 Ser Ser Leu Asn Asp Pro Gln Pro Ser Gly Asn Leu Arg Pro Pro Gln
 340 345 350
 Glu Glu Glu Glu Val Lys His Leu Gly Tyr Ala Ser His Leu Met Glu
 355 360 365
 Ile Phe Cys Asp Ser Glu Glu Asn Thr Glu Gly Thr Ser Phe Thr Gln
 370 375 380
 Gln Glu Ser Leu Ser Arg Thr Ile Pro Pro Asp Lys Thr Val Ile Glu
 385 390 395 400
 Tyr Glu Tyr Asp Val Arg Thr Thr Asp Ile Cys Ala Gly Pro Glu Glu
 405 410 415
 Gln Glu Leu Ser Leu Gln Glu Glu Val Ser Thr Gln Gly Thr Leu Leu
 420 425 430
 Glu Ser Gln Ala Ala Leu Ala Val Leu Gly Pro Gln Thr Leu Gln Tyr
 435 440 445
 Ser Tyr Thr Pro Gln Leu Gln Asp Leu Asp Pro Leu Ala Gln Glu His
 450 455 460
 Thr Asp Ser Glu Glu Gly Pro Glu Glu Glu Pro Ser Thr Thr Leu Val
 465 470 475 480
 Asp Trp Asp Pro Gln Thr Gly Arg Leu Cys Ile Pro Ser Leu Ser Ser
 485 490 495
 Phe Asp Gln Asp Ser Glu Gly Cys Glu Pro Ser Glu Gly Asp Gly Leu
 500 505 510
 Gly Glu Glu Gly Leu Leu Ser Arg Leu Tyr Glu Glu Pro Ala Pro Asp
 515 520 525
 Arg Pro Pro Gly Glu Asn Glu Thr Tyr Leu Met Gln Phe Met Glu Glu
 530 535 540
 Trp Gly Leu Tyr Val Gln Met Glu Asn
 545 550 553

<210> 1953
 <211> 202
 <212> PRT
 <213> Homo sapiens

<400> 1953
 Tyr Ser Ala Val Glu Phe Val Glu Gln Ala Ser Gly Ile Ser Asp Trp
 1 5 10 15
 Trp Asn Pro Ala Leu Arg Lys Arg Met Leu Ser Asp Ser Gly Leu Gly
 20 25 30
 Met Ile Ala Pro Tyr Tyr Glu Asp Ser Asp Leu Lys Asp Leu Ser His
 35 40 45
 Ser Arg Val Leu Gln Ser Pro Val Ser Ser Glu Asp His Ala Ile Leu
 50 55 60
 Gln Ala Val Ile Ala Gly Asp Leu Met Lys Leu Ile Glu Ser Tyr Lys
 65 70 75 80
 Asn Gly Gly Ser Leu Leu Ile Gln Gly Pro Asp His Cys Ser Leu Leu
 85 90 95
 His Tyr Ala Ala Glu Thr Gly Asn Gly Glu Ile Val Lys Tyr Ile Leu
 100 105 110
 Asp His Gly Pro Ser Glu Leu Leu Asp Met Ala Asp Ser Glu Thr Gly
 115 120 125
 Glu Thr Ala Leu His Lys Ala Ala Cys Gln Arg Asn Arg Ala Val Cys
 130 135 140
 Gln Leu Leu Val Asp Ala Gly Ala Ser Leu Arg Lys Thr Asp Ser Lys
 145 150 155 160
 Gly Lys Thr Pro Gln Glu Arg Ala Gln Gln Ala Gly Asp Pro Asp Leu
 165 170 175

Ala Ala Tyr Thr Ile Glu Ser Arg Gln Asn Tyr Lys Val Ile Gly His
 180 185 190
 Glu Asp Leu Glu Thr Ala Val
 195 199

<210> 1954
 <211> 312
 <212> PRT
 <213> Homo sapiens

<400> 1954
 Gln Asp Asn Lys Val Gln Asn Gly Ser Leu His Gln Lys Asp Thr Val
 1 5 10 15
 His Asp Asn Asp Phe Glu Pro Tyr Leu Thr Gly Gln Ala Asn Gln Ser
 20 25 30
 Asn Ser Tyr Pro Ser Met Ser Asp Pro Tyr Leu Ser Ser Tyr Tyr Pro
 35 40 45
 Pro Ser Ile Gly Phe Pro Tyr Ser Leu Asn Glu Ala Pro Trp Ser Thr
 50 55 60
 Ala Gly Asp Pro Pro Ile Pro Tyr Leu Thr Thr Tyr Gly Gln Leu Ser
 65 70 75 80
 Asn Gly Asp His His Phe Met His Asp Ala Val Phe Gly Gln Pro Gly
 85 90 95
 Gly Leu Gly Asn Asn Ile Tyr Gln His Arg Phe Asn Phe Phe Pro Glu
 100 105 110
 Asn Pro Ala Phe Ser Ala Trp Gly Thr Ser Gly Ser Gln Gly Gln Gln
 115 120 125
 Thr Gln Ser Ser Ala Tyr Gly Ser Ser Tyr Thr Tyr Pro Pro Ser Ser
 130 135 140
 Leu Gly Gly Thr Val Val Asp Gly Gln Pro Gly Phe His Ser Asp Thr
 145 150 155 160
 Leu Ser Lys Ala Pro Gly Met Asn Ser Leu Glu Gln Gly Met Val Gly
 165 170 175
 Leu Lys Ile Gly Asp Val Ser Ser Ser Ala Val Lys Thr Val Gly Ser
 180 185 190
 Val Val Ser Ser Val Ala Leu Thr Gly Val Leu Ser Gly Asn Gly Gly
 195 200 205
 Thr Asn Val Asn Met Pro Val Ser Lys Pro Thr Ser Trp Ala Ala Ile
 210 215 220
 Ala Ser Lys Pro Ala Lys Pro Gln Pro Lys Met Lys Thr Lys Ser Gly
 225 230 235 240
 Pro Val Met Gly Gly Leu Pro Pro Pro Ile Lys His Asn Met
 245 250 255
 Asp Ile Gly Thr Trp Asp Asn Lys Gly Pro Val Pro Lys Ala Pro Val
 260 265 270
 Pro Gln Gln Ala Pro Ser Pro Gln Ala Ala Pro Gln Pro Gln Gln Val
 275 280 285
 Ala Gln Pro Leu Pro Ala Gln Pro Pro Ala Leu Ala Gln Pro Gln Tyr
 290 295 300
 Gln Ser Pro Gln Gln Pro Pro Gln
 305 310 312

<210> 1955
 <211> 769
 <212> PRT
 <213> Homo sapiens

<400> 1955

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Ile Leu Leu Gln Glu Lys Arg Asn Cys Leu Leu Met Gln Leu Glu Glu
 1      5      10      15
Ala Thr Arg Leu Thr Ser Tyr Leu Gln Ser Gln Leu Lys Ser Leu Cys
 20      25      30
Ala Ser Thr Leu Thr Val Ser Ser Gly Ser Ser Arg Gly Ser Leu Ala
 35      40      45
Ser Ser Arg Gly Ser Leu Ala Ser Ser Arg Gly Ser Leu Ser Ser Val
 50      55      60
Ser Phe Thr Asp Ile Tyr Gly Leu Pro Gln Tyr Glu Lys Pro Asp Ala
 65      70      75      80
Glu Gly Ser Gln Leu Leu Arg Phe Asp Leu Ile Pro Phe Asp Ser Leu
 85      90      95
Gly Arg Asp Ala Pro Phe Ser Glu Pro Pro Gly Pro Ser Gly Phe His
100      105      110
Lys Gln Arg Arg Ser Leu Asp Thr Pro Gln Ser Leu Ala Ser Leu Ser
115      120      125
Ser Arg Ser Ser Leu Ser Ser Leu Ser Pro Pro Ser Ser Pro Leu Asp
130      135      140
Thr Pro Phe Leu Pro Ala Ser Arg Asp Ser Pro Leu Ala Gln Leu Ala
145      150      155      160
Asp Ser Cys Glu Gly Pro Gly Leu Gly Ala Leu Asp Arg Leu Arg Ala
165      170      175
His Ala Ser Ala Met Gly Asp Glu Asp Leu Pro Gly Met Ala Ala Leu
180      185      190
Gln Pro His Gly Val Pro Gly Asp Gly Glu Gly Pro His Glu Arg Gly
195      200      205
Pro Pro Pro Ala Ser Ala Pro Val Gly Gly Thr Val Thr Leu Arg Glu
210      215      220
Asp Ser Ala Lys Arg Leu Glu Arg Arg Ala Arg Arg Ile Ser Ala Cys
225      230      235      240
Leu Ser Asp Tyr Ser Leu Ala Ser Asp Ser Gly Val Phe Glu Pro Leu
245      250      255
Thr Lys Arg Asn Glu Asp Ala Glu Glu Pro Ala Tyr Gly Asp Thr Ala
260      265      270
Ser Asn Gly Asp Pro Gln Ile His Val Gly Leu Leu Arg Asp Ser Gly
275      280      285
Ser Glu Cys Leu Leu Val His Val Leu Gln Leu Lys Asn Pro Ala Gly
290      295      300
Leu Ala Val Lys Glu Asp Cys Lys Val His Ile Arg Val Tyr Leu Pro
305      310      315      320
Pro Leu Asp Ser Gly Thr Pro Asn Thr Tyr Cys Ser Lys Ala Leu Glu
325      330      335
Phe Gln Val Pro Leu Val Phe Asn Glu Val Phe Arg Ile Pro Val His
340      345      350
Ser Ser Ala Leu Thr Leu Lys Ser Leu Gln Leu Tyr Val Cys Ser Val
355      360      365
Thr Pro Gln Leu Gln Glu Glu Leu Leu Gly Ile Ala Gln Ile Asn Leu
370      375      380
Ala Asp Tyr Asp Ser Leu Ser Glu Met Gln Leu Arg Trp His Ser Val
385      390      395      400
Gln Val Phe Thr Ser Leu Asn His Gln Gly Arg Gly Arg Leu Gly Val
405      410      415
Gln Glu Arg Ala Pro Gly Thr Leu His Thr Pro Ser Pro Ser Pro
420      425      430
Ala Ser Thr Asp Ala Val Thr Val Leu Leu Ala Arg Thr Thr Ala Gln
435      440      445
Leu Gln Ala Val Glu Arg Glu Leu Ala Glu Glu Arg Ala Lys Leu Glu
450      455      460
Tyr Thr Glu Glu Glu Val Leu Glu Met Glu Arg Lys Glu Glu Gln Ala
465      470      475      480
Glu Ala Ile Ser Glu Arg Ser Trp Gln Ala Asp Ser Val Asp Ser Gly
485      490      495
Cys Ser Asn Cys Thr Gln Thr Ser Pro Pro Tyr Pro Glu Pro Cys Cys
500      505      510

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Met Gly Ile Asp Ser Ile Leu Gly His Pro Phe Ala Ala Gln Ala Gly
    515          520          525
Pro Tyr Ser Pro Glu Lys Phe Gln Pro Ser Pro Leu Lys Val Asp Lys
    530          535          540
Glu Thr Asn Thr Glu Asp Leu Phe Leu Glu Glu Ala Ala Ser Leu Val
    545          550          555          560
Lys Glu Arg Pro Ser Arg Arg Ala Arg Gly Ser Pro Phe Val Arg Ser
    565          570          575
Gly Thr Ile Val Arg Ser Gln Thr Phe Ser Pro Gly Ala Arg Ser Gln
    580          585          590
Tyr Val Cys Arg Leu Tyr Arg Ser Asp Ser Asp Ser Ser Thr Leu Pro
    595          600          605
Arg Lys Ser Pro Phe Val Arg Asn Thr Leu Glu Arg Arg Thr Leu Arg
    610          615          620
Tyr Lys Gln Ser Cys Arg Ser Ser Leu Ala Glu Leu Met Ala Arg Thr
    625          630          635          640
Ser Leu Asp Leu Glu Leu Asp Leu Gln Ala Ser Arg Thr Arg Gln Arg
    645          650          655
Gln Leu Asn Glu Glu Leu Cys Ala Leu Arg Glu Leu Arg Gln Arg Leu
    660          665          670
Glu Asp Ala Gln Leu Arg Gly Gln Thr Asp Leu Pro Pro Trp Val Leu
    675          680          685
Arg Asp Glu Arg Leu Arg Gly Leu Leu Arg Glu Ala Glu Arg Gln Thr
    690          695          700
Arg Gln Thr Lys Leu Asp Tyr Arg His Glu Gln Ala Ala Glu Lys Met
    705          710          715          720
Leu Lys Lys Ala Ser Lys Glu Ile Tyr Gln Leu Arg Gly Gln Ser His
    725          730          735
Lys Glu Pro Ile Gln Val Gln Thr Phe Arg Glu Lys Ile Ala Phe Phe
    740          745          750
Thr Arg Pro Arg Ile Asn Ile Pro Pro Leu Pro Ala Asp Asp Val
    755          760          765          767

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<210> 1956

<211> 885

<212> PRT

<213> Homo sapiens

<400> 1956

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Pro Gly Ser Gly Pro Gly Pro Ala Pro Phe Leu Ala Pro Val Ala Ala
  1          5          10          15
Pro Val Gly Gly Ile Ser Phe His Leu Gln Ile Gly Leu Ser Arg Glu
  20          25          30
Pro Val Leu Leu Leu Gln Asp Ser Ser Gly Asp Tyr Ser Leu Ala His
  35          40          45
Val Arg Glu Met Ala Cys Ser Ile Val Asp Gln Lys Phe Pro Glu Cys
  50          55          60
Gly Phe Tyr Gly Met Tyr Asp Lys Ile Leu Leu Phe Arg His Asp Pro
  65          70          75          80
Thr Ser Glu Asn Ile Leu Gln Leu Val Lys Ala Ala Ser Asp Ile Gln
  85          90          95
Glu Gly Asp Leu Ile Glu Val Val Leu Ser Ala Ser Ala Thr Phe Glu
  100          105          110
Asp Phe Gln Ile Arg Pro His Ala Leu Phe Val His Ser Tyr Arg Ala
  115          120          125
Pro Ala Phe Cys Asp His Cys Gly Glu Met Leu Trp Gly Leu Val Arg
  130          135          140
Gln Gly Leu Lys Cys Glu Gly Cys Gly Leu Asn Tyr His Lys Arg Cys
  145          150          155          160
Ala Phe Lys Ile Pro Asn Asn Cys Ser Gly Val Arg Arg Arg Arg Leu
  165          170          175

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Ser Asn Val Ser Leu Thr Gly Val Ser Thr Ile Arg Thr Ser Ser Ala
      180      185      190
Glu Leu Ser Thr Ser Ala Pro Asp Glu Pro Leu Leu Gln Lys Ser Pro
      195      200      205
Ser Glu Ser Phe Ile Gly Arg Glu Lys Arg Ser Asn Ser Gln Ser Tyr
      210      215      220
Ile Gly Arg Pro Ile His Leu Asp Lys Ile Leu Met Ser Lys Val Lys
      225      230      235      240
Val Pro His Thr Phe Val Ile His Ser Tyr Thr Arg Pro Thr Val Cys
      245      250      255
Gln Tyr Cys Lys Lys Leu Leu Lys Gly Leu Phe Arg Gln Gly Leu Gln
      260      265      270
Cys Lys Asp Cys Arg Phe Asn Cys His Lys Arg Cys Ala Pro Lys Val
      275      280      285
Pro Asn Asn Cys Leu Gly Glu Val Thr Ile Asn Gly Asp Leu Leu Ser
      290      295      300
Pro Gly Ala Glu Ser Asp Val Val Met Glu Glu Gly Ser Asp Asp Asn
      305      310      315      320
Asp Ser Glu Arg Asn Ser Gly Leu Met Asp Asp Met Glu Glu Ala Met
      325      330      335
Val Gln Asp Ala Glu Met Ala Met Ala Glu Cys Gln Asn Asp Ser Gly
      340      345      350
Glu Met Gln Asp Pro Asp Pro Asp His Glu Asp Ala Asn Arg Thr Ile
      355      360      365
Ser Pro Ser Thr Ser Asn Asn Ile Pro Leu Met Arg Val Val Gln Ser
      370      375      380
Val Lys His Thr Lys Arg Lys Ser Ser Thr Val Met Lys Glu Gly Trp
      385      390      395      400
Met Val His Tyr Thr Ser Lys Asp Thr Leu Arg Lys Arg His Tyr Trp
      405      410      415
Arg Leu Asp Ser Lys Cys Ile Thr Leu Phe Gln Asn Asp Thr Gly Ser
      420      425      430
Arg Tyr Tyr Lys Glu Ile Pro Leu Ser Glu Ile Leu Ser Leu Glu Pro
      435      440      445
Val Lys Thr Ser Ala Leu Ile Pro Asn Gly Ala Asn Pro His Cys Phe
      450      455      460
Glu Ile Thr Thr Ala Asn Val Val Tyr Tyr Val Gly Glu Asn Val Val
      465      470      475      480
Asn Pro Ser Ser Pro Ser Pro Asn Asn Ser Val Leu Thr Ser Gly Val
      485      490      495
Gly Ala Asp Val Ala Arg Met Trp Glu Ile Ala Ile Gln His Ala Leu
      500      505      510
Met Pro Val Ile Pro Lys Gly Ser Ser Val Gly Thr Gly Thr Asn Leu
      515      520      525
His Arg Asp Ile Ser Val Ser Ile Ser Val Ser Asn Cys Gln Ile Gln
      530      535      540
Glu Asn Val Asp Ile Ser Thr Val Tyr Gln Ile Phe Pro Asp Glu Val
      545      550      555      560
Leu Gly Ser Gly Gln Phe Gly Ile Val Tyr Gly Gly Lys His Arg Lys
      565      570      575
Thr Gly Arg Asp Val Ala Ile Lys Ile Ile Asp Lys Leu Arg Phe Pro
      580      585      590
Thr Lys Gln Glu Ser Gln Leu Arg Asn Glu Val Ala Ile Leu Gln Asn
      595      600      605
Leu His His Pro Gly Val Val Asn Leu Glu Cys Met Phe Glu Thr Pro
      610      615      620
Glu Arg Val Phe Val Val Met Glu Lys Leu His Gly Asp Met Leu Glu
      625      630      635      640
Met Ile Leu Ser Ser Glu Lys Gly Arg Leu Pro Glu His Ile Thr Lys
      645      650      655
Phe Leu Ile Thr Gln Ile Leu Val Ala Leu Arg His Leu His Phe Lys
      660      665      670
Asn Ile Val His Cys Asp Leu Lys Pro Glu Asn Val Leu Leu Ala Ser
      675      680      685

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Ala Asp Pro Phe Pro Gln Val Lys Leu Cys Asp Phe Gly Phe Ala Arg
 690 695 700
 Ile Ile Gly Glu Lys Ser Phe Arg Arg Ser Val Val Gly Thr Pro Ala
 705 710 715 720
 Tyr Leu Ala Pro Glu Val Leu Arg Asn Lys Gly Tyr Asn Arg Ser Leu
 725 730 735
 Asp Met Trp Ser Val Gly Val Ile Ile Tyr Val Ser Leu Ser Gly Thr
 740 745 750
 Phe Pro Phe Asn Glu Asp Glu Asp Ile His Asp Gln Ile Gln Asn Ala
 755 760 765
 Ala Phe Met Tyr Pro Pro Asn Pro Trp Lys Glu Ile Ser His Glu Ala
 770 775 780
 Ile Asp Leu Ile Asn Asn Leu Leu Gln Val Lys Met Arg Lys Arg Tyr
 785 790 795 800
 Ser Val Asp Lys Thr Leu Ser His Pro Trp Leu Gln Asp Tyr Gln Thr
 805 810 815
 Trp Leu Asp Leu Arg Glu Leu Glu Cys Lys Ile Gly Glu Arg Tyr Ile
 820 825 830
 Thr His Glu Ser Asp Asp Leu Arg Trp Glu Lys Tyr Ala Gly Glu Gln
 835 840 845
 Gly Leu Gln Tyr Pro Thr His Leu Ile Asn Pro Ser Ala Ser His Ser
 850 855 860
 Asp Thr Pro Glu Thr Glu Glu Thr Glu Met Lys Ala Leu Gly Glu Arg
 865 870 875 880
 Val Ser Ile Leu
 884

<210> 1957

<211> 1502

<212> PRT

<213> Homo sapiens

<400> 1957

Ser Arg Pro Trp Trp Leu Arg Ala Ser Glu Arg Pro Ser Ala Pro Ser
 1 5 10 15
 Ala Met Ala Lys Arg Ser Arg Gly Pro Gly Arg Arg Cys Leu Leu Ala
 20 25 30
 Leu Val Leu Phe Cys Ala Trp Gly Thr Leu Ala Val Val Ala Gln Lys
 35 40 45
 Pro Gly Ala Gly Cys Pro Ser Arg Cys Leu Cys Phe Arg Thr Thr Val
 50 55 60
 Arg Cys Met His Leu Leu Leu Glu Ala Val Pro Ala Val Ala Pro Gln
 65 70 75 80
 Thr Ser Ile Leu Asp Leu Arg Phe Asn Arg Ile Arg Glu Ile Gln Pro
 85 90 95
 Gly Ala Phe Arg Arg Leu Arg Asn Leu Asn Thr Leu Leu Leu Asn Asn
 100 105 110
 Asn Gln Ile Lys Arg Ile Pro Ser Gly Ala Phe Glu Asp Leu Glu Asn
 115 120 125
 Leu Lys Tyr Leu Tyr Leu Tyr Lys Asn Glu Ile Gln Ser Ile Asp Arg
 130 135 140
 Gln Ala Phe Lys Gly Leu Ala Ser Leu Glu Gln Leu Tyr Leu His Phe
 145 150 155 160
 Asn Gln Ile Glu Thr Leu Asp Pro Asp Ser Phe Gln His Leu Pro Lys
 165 170 175
 Leu Glu Arg Leu Phe Leu His Asn Asn Arg Ile Thr His Leu Val Pro
 180 185 190
 Gly Thr Phe Asn His Leu Glu Ser Met Lys Arg Leu Arg Leu Asp Ser
 195 200 205
 Asn Thr Leu His Cys Asp Cys Glu Ile Leu Trp Leu Ala Asp Leu Leu
 210 215 220

Lys Thr Tyr Ala Glu Ser Gly Asn Ala Gln Ala Ala Ala Ile Cys Glu
 225 230 235 240
 Tyr Pro Arg Arg Ile Gln Gly Arg Ser Val Ala Thr Ile Thr Pro Glu
 245 250 255
 Glu Leu Asn Cys Glu Arg Pro Arg Ile Thr Ser Glu Pro Gln Asp Ala
 260 265 270
 Asp Val Thr Ser Gly Asn Thr Val Tyr Phe Thr Cys Arg Ala Glu Gly
 275 280 285
 Asn Pro Lys Pro Glu Ile Ile Trp Leu Arg Asn Asn Asn Glu Leu Ser
 290 295 300
 Met Lys Thr Asp Ser Arg Leu Asn Leu Leu Asp Asp Gly Thr Leu Met
 305 310 315 320
 Ile Gln Asn Thr Gln Glu Thr Asp Gln Gly Ile Tyr Gln Cys Met Ala
 325 330 335
 Lys Asn Val Ala Gly Glu Val Lys Thr Gln Glu Val Thr Leu Arg Tyr
 340 345 350
 Phe Gly Ser Pro Ala Arg Pro Thr Phe Val Ile Gln Pro Gln Asn Thr
 355 360 365
 Glu Val Leu Val Gly Glu Ser Val Thr Leu Glu Cys Ser Ala Thr Gly
 370 375 380
 His Pro Pro Pro Arg Ile Ser Trp Thr Arg Gly Asp Arg Thr Pro Leu
 385 390 395 400
 Pro Val Asp Pro Arg Val Asn Ile Thr Pro Ser Gly Gly Leu Tyr Ile
 405 410 415
 Gln Asn Val Val Gln Gly Asp Ser Gly Glu Tyr Ala Cys Ser Ala Thr
 420 425 430
 Asn Asn Ile Asp Ser Val His Ala Thr Ala Phe Ile Ile Val Gln Ala
 435 440 445
 Leu Pro Gln Phe Thr Val Thr Pro Gln Asp Arg Val Val Ile Glu Gly
 450 455 460
 Gln Thr Val Asp Phe Gln Cys Glu Ala Lys Gly Asn Pro Pro Pro Val
 465 470 475 480
 Ile Ala Trp Thr Lys Gly Gly Ser Gln Leu Ser Val Asp Arg Arg His
 485 490 495
 Leu Val Leu Ser Ser Gly Thr Leu Arg Ile Ser Gly Val Ala Leu His
 500 505 510
 Asp Gln Gly Gln Tyr Glu Cys Gln Ala Val Asn Ile Ile Gly Ser Gln
 515 520 525
 Lys Val Val Ala His Leu Thr Val Gln Pro Arg Val Thr Pro Val Phe
 530 535 540
 Ala Ser Ile Pro Ser Asp Thr Thr Val Glu Val Gly Ala Asn Val Gln
 545 550 555 560
 Leu Pro Cys Ser Ser Gln Gly Glu Pro Glu Pro Ala Ile Thr Trp Asn
 565 570 575
 Lys Asp Gly Val Gln Val Thr Glu Ser Gly Lys Phe His Ile Ser Pro
 580 585 590
 Glu Gly Phe Leu Thr Ile Asn Asp Val Gly Pro Ala Asp Ala Gly Arg
 595 600 605
 Tyr Glu Cys Val Ala Arg Asn Thr Ile Gly Ser Ala Ser Val Ser Met
 610 615 620
 Val Leu Ser Val Asn Val Pro Asp Val Ser Arg Asn Gly Asp Pro Phe
 625 630 635 640
 Val Ala Thr Ser Ile Val Glu Ala Ile Ala Thr Val Asp Arg Ala Ile
 645 650 655
 Asn Ser Thr Arg Thr His Leu Phe Asp Ser Arg Pro Arg Ser Pro Asn
 660 665 670
 Asp Leu Leu Ala Leu Phe Arg Tyr Pro Arg Asp Pro Tyr Thr Val Glu
 675 680 685
 Gln Ala Arg Ala Gly Glu Ile Phe Glu Arg Thr Leu Gln Leu Ile Gln
 690 695 700
 Glu His Val Gln His Gly Leu Met Val Asp Leu Asn Gly Thr Ser Tyr
 705 710 715 720
 His Tyr Asn Asp Leu Val Ser Pro Gln Tyr Leu Asn Leu Ile Ala Asn
 725 730 735

Leu Ser Gly Cys Thr Ala His Arg Arg Val Asn Asn Cys Ser Asp Met
 740 745 750
 Cys Phe His Gln Lys Tyr Arg Thr His Asp Gly Thr Cys Asn Asn Leu
 755 760 765
 Gln His Pro Met Trp Gly Ala Ser Leu Thr Ala Phe Glu Arg Leu Leu
 770 775 780
 Lys Ser Val Tyr Glu Asn Gly Phe Asn Thr Pro Arg Gly Ile Asn Pro
 785 790 795 800
 His Arg Leu Tyr Asn Gly His Ala Leu Pro Met Pro Arg Leu Val Ser
 805 810 815
 Thr Thr Leu Ile Gly Thr Glu Thr Val Thr Pro Asp Glu Gln Phe Thr
 820 825 830
 His Met Leu Met Gln Trp Gly Gln Phe Leu Asp His Asp Leu Asp Ser
 835 840 845
 Thr Val Val Ala Leu Ser Gln Ala Arg Phe Ser Asp Gly Gln His Cys
 850 855 860
 Ser Asn Val Cys Ser Asn Asp Pro Pro Cys Phe Ser Val Met Ile Pro
 865 870 875 880
 Pro Asn Asp Ser Arg Ala Arg Ser Gly Ala Arg Cys Met Phe Phe Val
 885 890 895
 Arg Ser Ser Pro Val Cys Gly Ser Gly Met Thr Ser Leu Leu Met Asn
 900 905 910
 Ser Val Tyr Pro Arg Glu Gln Ile Asn Gln Leu Thr Ser Tyr Ile Asp
 915 920 925
 Ala Ser Asn Val Tyr Gly Ser Thr Glu His Glu Ala Arg Ser Ile Arg
 930 935 940
 Asp Leu Ala Ser His Arg Gly Leu Leu Arg Gln Gly Ile Val Gln Arg
 945 950 955 960
 Ser Gly Lys Pro Leu Leu Pro Phe Ala Thr Gly Pro Pro Thr Glu Cys
 965 970 975
 Met Arg Asp Glu Asn Glu Ser Pro Ile Pro Cys Phe Leu Ala Gly Asp
 980 985 990
 His Arg Ala Asn Glu Gln Leu Gly Leu Thr Ser Met His Thr Leu Trp
 995 1000 1005
 Phe Arg Glu His Asn Arg Ile Ala Thr Glu Leu Leu Lys Leu Asn Pro
 1010 1015 1020
 His Trp Asp Gly Asp Thr Ile Tyr Tyr Glu Thr Arg Lys Ile Val Gly
 1025 1030 1035 1040
 Ala Glu Ile Gln His Ile Thr Tyr Gln His Trp Leu Pro Lys Ile Leu
 1045 1050 1055
 Gly Glu Val Gly Met Arg Thr Leu Gly Glu Tyr His Gly Tyr Asp Pro
 1060 1065 1070
 Gly Ile Asn Ala Gly Ile Phe Asn Ala Phe Ala Thr Ala Ala Phe Arg
 1075 1080 1085
 Phe Gly His Thr Leu Val Asn Pro Leu Leu Leu Pro Gly Leu Asp Glu
 1090 1095 1100
 Asn Phe Gln Pro Ile Ala Gln Asp His Leu Pro Leu His Lys Ala Phe
 1105 1110 1115 1120
 Phe Ser Pro Phe Arg Ile Val Asn Glu Gly Gly Ile Asp Pro Leu Leu
 1125 1130 1135
 Arg Gly Leu Phe Gly Val Ala Gly Lys Met Arg Val Pro Ser Gln Leu
 1140 1145 1150
 Leu Asn Thr Glu Leu Thr Glu Arg Leu Phe Ser Met Ala His Thr Val
 1155 1160 1165
 Ala Leu Asp Leu Ala Ala Ile Asn Ile Gln Arg Gly Arg Asp His Gly
 1170 1175 1180
 Ile Pro Pro Tyr His Asp Tyr Arg Val Tyr Cys Asn Leu Ser Ala Ala
 1185 1190 1195 1200
 His Thr Phe Glu Asp Leu Lys Asn Glu Ile Lys Asn Pro Glu Ile Arg
 1205 1210 1215
 Glu Lys Leu Lys Arg Leu Tyr Gly Ser Thr Leu Asn Ile Asp Leu Phe
 1220 1225 1230
 Pro Ala Leu Val Val Glu Asp Leu Val Pro Gly Ser Arg Leu Gly Pro
 1235 1240 1245

Thr Leu Met Cys Leu Leu Ser Thr Gln Phe Lys Arg Leu Arg Asp Gly
 1250 1255 1260
 Asp Arg Leu Trp Tyr Glu Asn Pro Gly Val Phe Ser Pro Ala Gln Leu
 1265 1270 1275 1280
 Thr Gln Ile Lys Gln Thr Ser Leu Ala Arg Ile Leu Cys Asp Asn Ala
 1285 1290 1295
 Asp Asn Ile Thr Arg Val Gln Ser Asp Val Phe Arg Val Ala Glu Phe
 1300 1305 1310
 Pro His Gly Tyr Gly Ser Cys Asp Glu Ile Pro Arg Val Asp Leu Arg
 1315 1320 1325
 Val Trp Gln Asp Cys Cys Glu Asp Cys Arg Thr Arg Gly Gln Phe Asn
 1330 1335 1340
 Ala Phe Ser Tyr His Phe Arg Gly Arg Arg Ser Leu Glu Phe Ser Tyr
 1345 1350 1355 1360
 Gln Glu Asp Lys Pro Thr Lys Lys Thr Arg Pro Arg Lys Ile Pro Ser
 1365 1370 1375
 Val Gly Arg Gln Gly Glu His Leu Ser Asn Ser Thr Ser Ala Phe Ser
 1380 1385 1390
 Thr Arg Ser Asp Ala Ser Gly Thr Asn Asp Phe Gln Arg Val Cys Ser
 1395 1400 1405
 Trp Glu Met Gln Lys Thr Ile Thr Asp Leu Arg Thr Gln Ile Lys Lys
 1410 1415 1420
 Leu Glu Ser Arg Leu Ser Thr Thr Glu Cys Val Asp Ala Gly Gly Glu
 1425 1430 1435 1440
 Ser His Ala Asn Asn Thr Lys Trp Lys Lys Asp Ala Cys Thr Ile Cys
 1445 1450 1455
 Glu Cys Lys Asp Gly Gln Val Thr Cys Phe Val Glu Ala Cys Pro Pro
 1460 1465 1470
 Ala Thr Cys Ala Val Pro Val Asn Ile Pro Gly Ala Cys Cys Pro Val
 1475 1480 1485
 Cys Leu Gln Lys Arg Ala Glu Glu Lys Pro
 1490 1495 1498

<210> 1958
 <211> 262
 <212> PRT
 <213> Homo sapiens

<400> 1958
 Phe Ser Phe Leu Cys Gly Val Ser Gly Arg Leu Gly Leu Asp Ser Glu
 1 5 10 15
 Glu Asp Tyr Tyr Thr Pro Gln Lys Val Asp Val Pro Lys Ala Leu Ile
 20 25 30
 Ile Val Ala Val Gln Cys Gly Cys Asp Gly Thr Phe Leu Leu Thr Gln
 35 40 45
 Ser Gly Lys Val Leu Ala Cys Gly Leu Asn Glu Phe Asn Lys Leu Gly
 50 55 60
 Leu Asn Gln Cys Met Ser Gly Ile Ile Asn His Glu Ala Tyr His Glu
 65 70 75 80
 Val Pro Tyr Thr Thr Ser Phe Thr Leu Ala Lys Gln Leu Ser Phe Tyr
 85 90 95
 Lys Ile Arg Thr Ile Ala Pro Gly Lys Thr His Thr Ala Ala Ile Asp
 100 105 110
 Glu Arg Gly Arg Leu Leu Thr Phe Gly Cys Asn Lys Cys Gly Gln Leu
 115 120 125
 Gly Val Gly Asn Tyr Lys Lys Arg Leu Gly Ile Asn Leu Leu Gly Gly
 130 135 140
 Pro Leu Gly Gly Lys Gln Val Ile Arg Val Ser Cys Gly Asp Glu Phe
 145 150 155 160
 Thr Ile Ala Ala Thr Asp Asp Asn His Ile Phe Ala Trp Gly Asn Gly
 165 170 175

Gly Asn Gly Arg Leu Ala Met Thr Pro Thr Glu Arg Pro His Gly Ser
 180 185 190
 Asp Ile Cys Thr Ser Trp Pro Arg Pro Ile Phe Gly Ser Leu His His
 195 200 205
 Val Pro Asp Leu Ser Cys Arg Gly Trp His Thr Ile Leu Ile Val Glu
 210 215 220
 Lys Val Leu Asn Ser Lys Thr Ile Arg Ser Asn Ser Ser Gly Leu Ser
 225 230 235 240
 Ile Gly Thr Val Phe Gln Ser Ser Ser Pro Gly Gly Gly Gly Glu Gly
 245 250 255
 Gly Pro Asp Ala Trp
 260 261

<210> 1959
 <211> 139
 <212> PRT
 <213> Homo sapiens

<400> 1959
 Phe Phe Phe Phe Glu Thr Glu Ser Arg Ser Val Ala Gln Ala Gly Val
 1 5 10 15
 Gln Trp Arg Asp Leu Gly Ser Leu Gln Ala Pro Pro Pro Gly Phe Thr
 20 25 30
 Pro Phe Ser Cys Leu Ser Leu Pro Ser Ser Trp Asp Tyr Arg Arg Pro
 35 40 45
 Pro Leu Arg Pro Ala Asn Phe Phe Val Phe Leu Val Glu Thr Gly Phe
 50 55 60
 His Arg Phe Ser Arg Asp Gly Leu Asp Leu Leu Thr Ser Gly Asp Pro
 65 70 75 80
 Pro Ala Ser Ala Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His Arg
 85 90 95
 Ala Arg Pro Arg Ile Asn Leu Arg Asn Val Ile Tyr Ser Phe Ala Val
 100 105 110
 Thr Tyr Cys Leu Asn Tyr Ile Ser Leu Ala Met Ser Ser Thr Leu Lys
 115 120 125
 Leu Ser Phe His Val Leu Ser Gly Ser
 130 135 137

<210> 1960
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 1960
 Glu Cys Arg Gly Val Ile Ser Ala His Cys Cys Thr Leu Cys Leu Pro
 1 5 10 15
 Ser Ser Ser Asp Ser Ala Ser Ala Phe Arg Val Ala Arg Thr Thr Gly
 20 25 30
 Thr Cys Asp Tyr Ala Gln Leu Ile Phe Ala Phe Leu Val Glu Met Gly
 35 40 45
 Phe His His Val Gly Gln Asp Gly Leu His Leu Leu Asn Leu Val Ile
 50 55 60
 Arg Pro Pro Arg Pro Pro Lys Val Leu Gly Leu Gln Ala
 65 70 75 77

<210> 1961

<211> 459
 <212> PRT
 <213> Homo sapiens

<400> 1961

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Ala Asp Pro His Thr Thr Val Ile Arg Phe Phe Pro Ala Ala Ser Ala
 1          5          10          15
Thr Lys Arg Val Leu Pro Pro Val Leu Arg Val Ser Ser Pro Arg Thr
 20          25          30
Trp Asn Pro Asn Val Pro Glu Ser Pro Arg Ile Pro Ala Pro Arg Leu
 35          40          45
Pro Lys Arg Met Ser Gly Ala Pro Thr Ala Gly Ala Ala Leu Met Leu
 50          55          60
Cys Ala Ala Thr Ala Val Leu Leu Ser Ala Gln Gly Gly Pro Val Gln
 65          70          75          80
Ser Lys Ser Pro Arg Phe Ala Ser Trp Asp Glu Met Asn Val Leu Ala
 85          90          95
His Gly Leu Leu Gln Leu Gly Gln Gly Cys Ala Asn Thr Gly Ala His
100          105          110
Pro Gln Ser Ala Glu Arg Ala Gly Ala Arg Leu Ser Ala Cys Gly Ser
115          120          125
Ala Cys Gln Gly Thr Glu Gly Ser Thr Asp Leu Pro Leu Ala Pro Glu
130          135          140
Ser Arg Val Asp Pro Glu Val Leu His Ser Leu Gln Thr Gln Leu Lys
145          150          155          160
Ala Gln Asn Ser Arg Ile Gln Gln Leu Phe His Lys Val Ala Gln Gln
165          170          175
Gln Arg His Leu Glu Lys Gln His Leu Arg Ile Gln His Leu Gln Ser
180          185          190
Gln Phe Gly Leu Leu Asp His Lys His Leu Asp His Glu Val Ala Lys
195          200          205
Pro Ala Arg Arg Lys Arg Leu Pro Glu Met Ala Gln Pro Val Asp Pro
210          215          220
Ala His Asn Val Ser Arg Leu His Arg Leu Pro Arg Asp Cys Gln Glu
225          230          235          240
Leu Phe Gln Val Gly Glu Arg Gln Ser Gly Leu Phe Glu Ile Gln Pro
245          250          255
Gln Gly Ser Pro Pro Phe Leu Val Asn Cys Lys Met Thr Ser Asp Gly
260          265          270
Gly Trp Thr Val Ile Gln Arg Arg His Asp Gly Ser Val Asp Phe Asn
275          280          285
Arg Pro Trp Glu Ala Tyr Lys Ala Gly Phe Gly Asp Pro His Gly Glu
290          295          300
Phe Trp Leu Gly Leu Glu Lys Val His Ser Ile Thr Gly Asp Arg Asn
305          310          315          320
Ser Arg Leu Ala Val Gln Leu Arg Asp Trp Asp Gly Asn Ala Glu Leu
325          330          335
Leu Gln Phe Ser Val His Leu Gly Gly Glu Asp Thr Ala Tyr Ser Leu
340          345          350
Gln Leu Thr Ala Pro Val Ala Gly Gln Leu Gly Ala Thr Thr Val Pro
355          360          365
Pro Ser Gly Leu Ser Val Pro Phe Ser Thr Trp Asp Gln Asp His Asp
370          375          380
Leu Arg Arg Asp Lys Asn Cys Ala Lys Ser Leu Ser Gly Gly Trp Trp
385          390          395          400
Phe Gly Thr Cys Ser His Ser Asn Leu Asn Gly Gln Tyr Phe Arg Ser
405          410          415
Ile Pro Gln Gln Arg Gln Lys Leu Lys Lys Gly Ile Phe Trp Lys Thr
420          425          430
Trp Arg Gly Arg Tyr Tyr Pro Leu Gln Ala Thr Thr Met Leu Ile Gln
435          440          445
Pro Met Ala Ala Glu Ala Ala Ser
450          455 456

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<210> 1962
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 1962
 Phe Phe Phe Glu Thr Glu Ser Arg Ser Val Ala Gln Ala Gly Val Gln
 1 5 10 15
 Trp Arg Asp Leu Ser Ser Leu Gln Pro Pro Pro Gly Ser Arg Gly
 20 25 30
 Ser Pro Ala Ser Ala Ser Pro Val Ala Gly Ile Thr Gly Thr Arg His
 35 40 45
 His Arg Thr Arg Gly
 50 53

<210> 1963
 <211> 125
 <212> PRT
 <213> Homo sapiens

<400> 1963
 Pro Leu Ala Gln Arg Arg Pro Phe Leu Trp Val Thr Val Lys Thr Asn
 1 5 10 15
 Gly His Ile Trp Gly Ser Ser Thr Tyr Pro His Phe Trp Gly Ser Ser
 20 25 30
 Asn Ser Pro Ala Ser Ala Ser Gln Val Ala Gly Ile Pro Asn Ala Arg
 35 40 45
 His Gln Ala Arg Ile Ile Phe Val Phe Leu Val Glu Pro Arg Phe His
 50 55 60
 His Val Gly Arg Ala Gly Leu Gly Phe Leu Asn Leu Ala Ile Cys Leu
 65 70 75 80
 Pro Gln His Pro Lys Val Leu Gly Leu Gln Ala Cys Asn Leu Asn Ile
 85 90 95
 Lys Pro His Pro Ala His Lys Tyr Ile Ser Met Ile Gln Phe Asn Val
 100 105 110
 His Phe Met Cys Met Ser Val His Ile Tyr Ile
 115 120 123

<210> 1964
 <211> 143
 <212> PRT
 <213> Homo sapiens

<400> 1964
 Pro Gly Ser Ala Gln Ser Ala Gln Arg Gly Arg Gly Arg Arg Ala
 1 5 10 15
 Arg Ala Gly Ser Ala Thr Gln Ile Thr Met Tyr Ser Phe Met Gly Gly
 20 25 30
 Gly Leu Phe Cys Ala Trp Val Gly Thr Ile Leu Leu Val Val Ala Met
 35 40 45
 Ala Thr Asp His Trp Met Gln Tyr Arg Leu Ser Gly Ser Phe Ala His
 50 55 60
 Gln Gly Leu Trp Arg Tyr Cys Leu Gly Asn Lys Cys Tyr Leu Gln Thr
 65 70 75 80

Asp Ser Ile Ala Tyr Trp Asn Ala Thr Arg Ala Phe Met Ile Leu Ser
 85 90 95
 Ala Leu Cys Ala Ile Ser Gly Ile Ile Met Gly Ile Met Ala Phe Gly
 100 105 110
 Trp Val Ala Val Leu Met Thr Phe Phe Ala Gly Ile Phe Tyr Met Cys
 115 120 125
 Ala Tyr Arg Val His Glu Cys Arg Arg Leu Ser Thr Pro Arg
 130 135 140 142

<210> 1965
 <211> 137
 <212> PRT
 <213> Homo sapiens

<400> 1965
 Thr Ile Leu Pro Glu Lys Ile Gln Ala Trp Ala Gln Lys Gln Cys Pro
 1 5 10 15
 Gln Ser Gly Glu Glu Ala Val Ala Leu Val Val His Leu Glu Lys Glu
 20 25 30
 Thr Gly Arg Leu Arg Gln Gln Val Ser Ser Pro Val His Arg Glu Lys
 35 40 45
 His Ser Pro Leu Gly Ala Ala Trp Glu Val Ala Asp Phe Gln Pro Glu
 50 55 60
 Gln Val Glu Thr Gln Pro Arg Ala Val Ser Arg Glu Glu Pro Gly Ser
 65 70 75 80
 Leu His Ser Gly His Gln Glu Gln Leu Asn Arg Lys Arg Glu Arg Arg
 85 90 95
 Pro Leu Pro Lys Asn Ala Arg Pro Ser Pro Trp Val Pro Ala Leu Ala
 100 105 110
 Asp Glu Trp Asn Thr Leu His Gln Glu Val Thr Thr Thr Arg Leu Pro
 115 120 125
 Ala Gly Ser Gln Glu Pro Val Lys Asp
 130 135 137

<210> 1966
 <211> 95
 <212> PRT
 <213> Homo sapiens

<400> 1966
 Asp Phe Ala Leu Val Ala Gln Ala Gly Val Gln Trp His Asn Leu Gly
 1 5 10 15
 Ser Pro Gln Pro Leu Pro Pro Gly Phe Lys Arg Phe Ser Cys Leu Ser
 20 25 30
 Leu Pro Ser Ser Trp Glu Tyr Arg Cys Val Pro Pro Arg Leu Ala Asn
 35 40 45
 Phe Val Phe Leu Val Glu Met Gly Phe Leu His Val Gly Gln Ala Gly
 50 55 60
 Leu Glu Leu Pro Thr Ser Gly Asp Pro Pro Ala Leu Ala Ser Gln Ser
 65 70 75 80
 Ala Gly Ile Thr Gly Val Thr Thr Val Pro Ser Gly Pro Gly
 85 90 94

<210> 1967
 <211> 133
 <212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(133)

<223> Xaa = any amino acid or nothing

<400> 1967

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Xaa Arg His Gly Leu Arg Glu Pro Leu Leu Glu Arg Arg Cys Ala Ala
 1          5          10          15
Ala Ser Ser Phe Gln His Ser Ser Ser Leu Gly Arg Glu Leu Pro Tyr
 20          25          30
Asp Pro Val Asp Thr Glu Gly Phe Gly Glu Gly Gly Asp Met Gln Glu
 35          40          45
Arg Phe Leu Phe Pro Glu Tyr Ile Leu Asp Pro Glu Pro Gln Pro Thr
 50          55          60
Arg Glu Lys Gln Leu Gln Glu Leu Gln Gln Gln Gln Glu Glu Glu Glu
 65          70          75          80
Arg Gln Arg Gln Gln Arg Arg Glu Glu Arg Arg Gln Gln Asn Leu Arg
 85          90          95
Ala Arg Ser Arg Glu His Pro Val Val Gly His Pro Asp Pro Ala Leu
100          105          110
Pro Pro Ser Gly Val Asn Cys Ser Gly Cys Gly Ala Glu Leu His Cys
115          120          125
Gln Asp Ala Arg *
130          132

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<210> 1968

<211> 586

<212> PRT

<213> Homo sapiens

<400> 1968

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Ala Arg Ser Arg Asn Ser Ala Arg Gly Val Tyr Gly Met Cys Val Asp
 1          5          10          15
Thr Leu Phe Leu Cys Phe Leu Glu Asp Leu Glu Arg Asn Asp Gly Ser
 20          25          30
Ala Glu Arg Pro Tyr Phe Met Cys Ser Thr Leu Lys Lys Pro Leu Ala
 35          40          45
Arg Arg Cys Phe Pro Ala Ile His Ala Tyr Lys Gly Val Leu Met Val
 50          55          60
Gly Asn Glu Thr Thr Tyr Glu Asp Gly His Gly Ser Arg Lys Asn Ile
 65          70          75          80
Thr Asp Leu Val Glu Gly Ala Lys Lys Ala Asn Gly Val Leu Glu Ala
 85          90          95
Arg Gln Leu Ala Met Arg Ile Phe Glu Asp Tyr Thr Val Ser Trp Tyr
100          105          110
Trp Ile Ile Ile Gly Leu Val Ile Ala Met Ala Met Ser Leu Leu Ser
115          120          125
Ile Ile Leu Leu His Leu Leu Ala Gly Ile Met Gly Trp Val Met Ile
130          135          140
Ile Met Glu Ile Ser Glu Leu Gly Tyr Arg Ile Phe His Cys Tyr Met
145          150          155          160
Glu Tyr Ser Arg Leu Arg Gly Glu Ala Gly Ser Asp Val Ser Leu Val
165          170          175
Asp Leu Gly Phe Gln Thr Asp Phe Arg Val Tyr Leu His Leu Arg Gln
180          185          190
Thr Trp Leu Ala Phe Met Ile Ile Leu Ser Ile Leu Glu Val Ile Ile
195          200          205
Ile Leu Leu Leu Ile Phe Leu Arg Lys Arg Ile Leu Ile Ala Ile Ala
210          215          220

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Leu Ile Lys Glu Ala Ser Arg Ala Val Gly Tyr Val Met Cys Ser Leu
225          230          235          240
Leu Tyr Pro Leu Val Thr Phe Phe Leu Leu Cys Leu Cys Ile Ala Tyr
          245          250          255
Trp Ala Ser Thr Ala Val Phe Leu Ser Thr Ser Asn Glu Ala Val Tyr
          260          265          270
Lys Ile Phe Asp Asp Ser Pro Cys Pro Phe Thr Ala Lys Thr Cys Asn
          275          280          285
Pro Glu Thr Phe Pro Ser Ser Asn Glu Ser Arg Gln Cys Pro Asn Ala
          290          295          300
Arg Cys Gln Phe Ala Phe Tyr Gly Gly Glu Ser Gly Tyr His Arg Ala
305          310          315          320
Leu Leu Gly Leu Gln Ile Phe Asn Ala Phe Met Phe Phe Trp Leu Ala
          325          330          335
Asn Phe Val Leu Ala Leu Gly Gln Val Thr Leu Ala Gly Ala Phe Ala
          340          345          350
Ser Tyr Tyr Trp Ala Leu Arg Lys Pro Asp Asp Leu Pro Ala Phe Pro
          355          360          365
Leu Phe Ser Ala Phe Gly Arg Ala Leu Arg Tyr His Thr Gly Ser Leu
          370          375          380
Ala Phe Gly Ala Leu Ile Leu Ala Ile Val Gln Ile Ile Arg Val Ile
385          390          395          400
Leu Glu Tyr Leu Asp Gln Arg Leu Lys Ala Ala Glu Asn Lys Phe Ala
          405          410          415
Lys Cys Leu Met Thr Cys Leu Lys Cys Cys Phe Trp Cys Leu Glu Lys
          420          425          430
Phe Ile Lys Phe Leu Asn Arg Asn Ala Tyr Ile Met Ile Ala Ile Tyr
          435          440          445
Gly Thr Asn Phe Cys Thr Ser Ala Arg Asn Ala Phe Phe Leu Leu Met
          450          455          460
Arg Asn Ile Ile Arg Val Ala Val Leu Asp Lys Val Thr Asp Phe Leu
465          470          475          480
Phe Leu Leu Gly Lys Leu Leu Ile Val Gly Ser Val Gly Ile Leu Ala
          485          490          495
Phe Phe Phe Phe Thr His Arg Ile Arg Ile Val Gln Asp Thr Ala Pro
          500          505          510
Pro Leu Asn Tyr Tyr Trp Val Pro Ile Leu Thr Val Ile Val Gly Ser
          515          520          525
Tyr Leu Ile Ala His Gly Phe Phe Ser Val Tyr Gly Met Cys Val Asp
          530          535          540
Thr Leu Phe Leu Cys Phe Leu Glu Asp Leu Glu Arg Asn Asp Gly Ser
          545          550          555          560
Ala Glu Arg Pro Tyr Phe Met Ser Ser Thr Leu Lys Lys Leu Leu Asn
          565          570          575
Lys Thr Asn Lys Lys Ala Ala Glu Ser
          580          585

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<210> 1969
 <211> 120
 <212> PRT
 <213> Homo sapiens

```

          <400> 1969
Arg Thr Ser Val Glu Pro Tyr Ile Leu Gly Glu Phe Arg Lys Leu Ser
1          5          10          15
Asn Asn Thr Lys Val Val Lys Thr Glu Tyr Lys Ala Thr Glu Tyr Gly
          20          25          30
Leu Ala Tyr Gly His Phe Ser Tyr Glu Phe Ser Asn His Arg Asp Val
          35          40          45
Val Val Asp Leu Gln Gly Trp Val Thr Gly Asn Gly Lys Gly Leu Ile
          50          55          60

```

Tyr Leu Thr Asp Pro Gln Ile His Ser Val Asp Gln Lys Val Phe Thr
 65 70 75 80
 Thr Asn Phe Gly Lys Arg Gly Ile Phe Tyr Phe Phe Asn Asn Gln His
 85 90 95
 Val Glu Cys Asn Glu Ile Cys His Arg Leu Ser Leu Thr Arg Pro Ser
 100 105 110
 Met Glu Lys Pro Cys Lys Ser
 115 119

<210> 1970
 <211> 811
 <212> PRT
 <213> Homo sapiens

<400> 1970
 Met Glu Arg Leu Trp Gly Leu Phe Gln Arg Ala Gln Gln Leu Ser Pro
 1 5 10 15
 Arg Ser Ser Gln Thr Val Tyr Gln Arg Val Glu Gly Pro Arg Lys Gly
 20 25 30
 His Leu Glu Glu Glu Glu Glu Asp Gly Glu Glu Gly Ala Glu Thr Leu
 35 40 45
 Ala His Phe Cys Pro Met Glu Leu Arg Gly Pro Glu Pro Leu Gly Ser
 50 55 60
 Arg Pro Arg Gln Pro Asn Leu Ile Pro Trp Ala Ala Ala Gly Arg Arg
 65 70 75 80
 Ala Ala Pro Tyr Leu Val Leu Thr Ala Leu Leu Ile Phe Thr Gly Ala
 85 90 95
 Phe Leu Leu Gly Tyr Val Ala Phe Arg Gly Ser Cys Gln Ala Cys Gly
 100 105 110
 Asp Ser Val Leu Val Val Ser Glu Asp Val Asn Tyr Glu Pro Asp Leu
 115 120 125
 Asp Phe His Gln Gly Arg Leu Tyr Trp Ser Asp Leu Gln Ala Met Phe
 130 135 140
 Leu Gln Phe Leu Gly Glu Gly Arg Leu Glu Asp Thr Ile Arg Gln Thr
 145 150 155 160
 Ser Leu Arg Glu Arg Val Ala Gly Ser Ala Gly Met Ala Ala Leu Thr
 165 170 175
 Gln Asp Ile Arg Ala Ala Leu Ser Arg Gln Lys Leu Asp His Val Trp
 180 185 190
 Thr Asp Thr His Tyr Val Gly Leu Gln Phe Pro Asp Pro Ala His Pro
 195 200 205
 Asn Thr Leu His Trp Val Asp Glu Ala Gly Lys Val Gly Glu Gln Leu
 210 215 220
 Pro Leu Glu Asp Pro Asp Val Tyr Cys Pro Tyr Ser Ala Ile Gly Asn
 225 230 235 240
 Val Thr Gly Glu Leu Val Tyr Ala His Tyr Gly Arg Pro Glu Asp Leu
 245 250 255
 Gln Asp Leu Arg Ala Arg Gly Val Asp Pro Val Gly Arg Leu Leu Leu
 260 265 270
 Val Arg Val Gly Val Ile Ser Phe Ala Gln Lys Val Thr Asn Ala Gln
 275 280 285
 Asp Phe Gly Ala Gln Gly Val Leu Ile Tyr Pro Glu Pro Ala Asp Phe
 290 295 300
 Ser Gln Asp Pro Pro Lys Pro Ser Leu Ser Ser Gln Gln Ala Val Tyr
 305 310 315 320
 Gly His Val His Leu Gly Thr Gly Asp Pro Tyr Thr Pro Gly Phe Pro
 325 330 335
 Ser Phe Asn Gln Thr Gln Phe Pro Pro Val Ala Ser Ser Gly Leu Pro
 340 345 350
 Ser Ile Pro Ala Gln Pro Ile Ser Ala Asp Ile Ala Ser Arg Leu Leu
 355 360 365

```

Arg Lys Leu Lys Gly Pro Val Ala Pro Gln Glu Trp Gln Gly Ser Leu
 370          375          380
Leu Gly Ser Pro Tyr His Leu Gly Pro Gly Pro Arg Leu Arg Leu Val
385          390          395          400
Val Asn Asn His Arg Thr Ser Thr Pro Ile Asn Asn Ile Phe Gly Cys
          405          410          415
Ile Glu Gly Arg Ser Glu Pro Asp His Tyr Val Val Ile Gly Ala Gln
          420          425          430
Arg Asp Ala Trp Gly Pro Gly Ala Ala Lys Ser Ala Val Gly Thr Ala
          435          440          445
Ile Leu Leu Glu Leu Val Arg Thr Phe Ser Ser Met Val Ser Asn Gly
          450          455          460
Phe Arg Pro Arg Arg Ser Leu Leu Phe Ile Ser Trp Asp Gly Gly Asp
465          470          475          480
Phe Gly Ser Val Gly Ser Thr Glu Trp Leu Glu Gly Tyr Leu Ser Val
          485          490          495
Leu His Leu Lys Ala Val Val Tyr Val Ser Leu Asp Asn Ala Val Leu
          500          505          510
Gly Asp Asp Lys Phe His Ala Lys Thr Ser Pro Leu Leu Thr Ser Leu
          515          520          525
Ile Glu Ser Val Leu Lys Gln Val Asp Ser Pro Asn His Ser Gly Gln
          530          535          540
Thr Leu Tyr Glu Gln Val Val Phe Thr Asn Pro Ser Trp Asp Ala Glu
545          550          555          560
Val Ile Arg Pro Leu Pro Met Asp Ser Ser Ala Tyr Ser Phe Thr Ala
          565          570          575
Phe Val Gly Val Pro Ala Val Glu Phe Ser Phe Met Glu Asp Asp Gln
          580          585          590
Ala Tyr Pro Phe Leu His Thr Lys Glu Asp Thr Tyr Glu Asn Leu His
          595          600          605
Lys Val Leu Gln Gly Arg Leu Pro Ala Val Ala Gln Ala Val Ala Gln
          610          615          620
Leu Ala Gly Gln Leu Leu Ile Arg Leu Ser His Asp Arg Leu Leu Pro
625          630          635          640
Leu Asp Phe Gly Arg Tyr Gly Asp Val Val Leu Arg His Ile Gly Asn
          645          650          655
Leu Asn Glu Phe Ser Gly Asp Leu Lys Ala Arg Gly Leu Thr Leu Gln
          660          665          670
Trp Val Tyr Ser Ala Arg Gly Asp Tyr Ile Arg Ala Ala Glu Lys Leu
          675          680          685
Arg Gln Glu Ile Tyr Ser Ser Glu Glu Arg Asp Glu Arg Leu Thr Arg
          690          695          700
Met Tyr Asn Val Arg Ile Met Arg Val Glu Phe Tyr Phe Leu Ser Gln
705          710          715          720
Tyr Val Ser Pro Ala Asp Ser Pro Phe Arg His Ile Phe Met Gly Arg
          725          730          735
Gly Asp His Thr Leu Gly Ala Leu Leu Asp His Leu Arg Leu Leu Arg
          740          745          750
Ser Asn Ser Ser Gly Thr Pro Gly Ala Thr Ser Ser Thr Gly Phe Gln
          755          760          765
Glu Ser Arg Phe Arg Arg Gln Leu Ala Leu Leu Thr Trp Asp Ala Cys
          770          775          780
Lys Gly Ala Ala Asn Ala Leu Ser Gly Asp Val Trp Asn Ile Asp Asn
785          790          795          800
Asn Phe
802

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<210> 1971
<211> 152
<212> PRT
<213> Homo sapiens

```

<400> 1971
 Ile Ser Arg Val Asp Asp Phe Val Gly Ser Gly Ile Ala Asn Val Ile
 1 5 10 15
 Ile Ala Val Ala Ile Phe Ser Ile Pro Ala Phe Ala Arg Leu Val Arg
 20 25 30
 Gly Asn Thr Leu Val Leu Lys Gln Gln Thr Phe Ile Glu Ser Ala Arg
 35 40 45
 Ser Ile Gly Ala Ser Asp Met Thr Val Leu Leu Arg His Ile Leu Pro
 50 55 60
 Gly Thr Gly Ser Ser Ile Val Val Phe Phe Thr Met Arg Ile Gly Thr
 65 70 75 80
 Ser Ile Ile Ser Ala Ala Ser Leu Ser Phe Leu Gly Leu Gly Ala Gln
 85 90 95
 Pro Pro Thr Pro Glu Trp Gly Ala Met Leu Asn Glu Ala Arg Ala Asp
 100 105 110
 Met Val Ile Ala Pro His Val Ala Val Phe Pro Ala Leu Ala Ile Phe
 115 120 125
 Leu Thr Val Leu Ala Phe Asn Leu Leu Gly Asp Gly Leu Arg Asp Ala
 130 135 140
 Leu Asp Pro Lys Ile Lys Gly
 145 150 151

<210> 1972
 <211> 275
 <212> PRT
 <213> Homo sapiens

<400> 1972
 Leu Val Tyr Val Met Ile Ala Ile Phe Cys Ile Ala Ser Ala Met Ser
 1 5 10 15
 Leu Tyr Asn Cys Leu Ala Ala Leu Ile His Lys Ile Pro Tyr Gly Gln
 20 25 30
 Cys Thr Ile Ala Cys Arg Gly Lys Asn Met Glu Val Arg Leu Ile Phe
 35 40 45
 Leu Ser Gly Leu Cys Ile Ala Val Ala Val Val Trp Ala Val Phe Arg
 50 55 60
 Asn Glu Asp Arg Trp Ala Trp Ile Leu Gln Asp Ile Leu Gly Ile Ala
 65 70 75 80
 Phe Cys Leu Asn Leu Ile Lys Thr Leu Lys Leu Pro Asn Phe Lys Ser
 85 90 95
 Cys Val Ile Leu Leu Gly Leu Leu Leu Leu Tyr Asp Val Phe Phe Val
 100 105 110
 Phe Ile Thr Pro Phe Ile Thr Lys Asn Gly Glu Ser Ile Met Val Glu
 115 120 125
 Leu Ala Ala Gly Pro Phe Gly Asn Asn Glu Lys Asn Asp Gly Asn Leu
 130 135 140
 Val Glu Ala Thr Gly Gln Pro Ser Ala Pro His Glu Lys Leu Pro Val
 145 150 155 160
 Val Ile Arg Val Pro Lys Leu Ile Tyr Phe Ser Val Met Ser Val Cys
 165 170 175
 Leu Met Pro Val Ser Ile Leu Gly Phe Gly Asp Ile Ile Val Pro Gly
 180 185 190
 Leu Leu Ile Ala Tyr Cys Arg Arg Phe Asp Val Gln Thr Gly Ser Ser
 195 200 205
 Tyr Ile Tyr Tyr Val Ser Val Thr Val Ala Tyr Ala Ile Gly Met Ile
 210 215 220
 Leu Thr Phe Val Val Leu Gly Leu Met Lys Lys Gly Gln Pro Ala Leu
 225 230 235 240
 Leu Tyr Leu Val Pro Cys Thr Leu Ile Thr Ala Cys Gln Phe Val Ala
 245 250 255

Trp Glu Thr Val Arg Glu Met Lys Lys Phe Trp Glu Arg Val Thr Ser
 260 265 270 272

<210> 1973
 <211> 224
 <212> PRT
 <213> Homo sapiens
 <221> misc_feature
 <222> (1)...(224)
 <223> Xaa = any amino acid or nothing

<400> 1973
 Thr Leu Val Ser Val Val Glu Phe Val Arg Arg Ala Asp Leu Thr Arg
 1 5 10 15
 Glu Asp Leu Ala Pro Ser Ser Val Asp Ser Gly Gln Ala Gly Phe Gly
 20 25 30
 Gly Cys Cys Glu Ser Gly Leu Pro Asn Thr Met Pro Ser Ala Phe Ser
 35 40 45
 Val Ser Ser Phe Pro Val Ser Ile Pro Ala Val Leu Thr Gln Thr Asp
 50 55 60
 Trp Thr Glu Pro Trp Leu Met Gly Leu Ala Thr Phe His Ala Leu Cys
 65 70 75 80
 Val Leu Leu Thr Cys Leu Ser Ser Arg Ser Tyr Arg Leu Gln Ile Gly
 85 90 95
 His Phe Leu Cys Leu Val Ile Leu Val Tyr Cys Ala Glu Tyr Ile Asn
 100 105 110
 Glu Ala Ala Ala Met Asn Trp Arg Leu Phe Ser Lys Tyr Gln Tyr Phe
 115 120 125
 Asp Ser Arg Gly Met Phe Ile Ser Ile Val Phe Ser Ala Pro Leu Leu
 130 135 140
 Val Asn Ala Met Ile Ile Val Val Met Trp Val Trp Lys Thr Leu Asn
 145 150 155 160
 Val Met Thr Asp Leu Lys Asn Ala Gln Glu Arg Arg Lys Glu Lys Lys
 165 170 175
 Arg Arg Arg Lys Glu Asp Xaa Gly Ala Ala Ala Ala Trp Ser Leu Arg
 180 185 190
 Pro Ser Arg Pro Pro Ser Ala Ala Pro Ser Ala Val Cys Val Ala
 195 200 205
 Trp Ala Ser Phe Gln Leu Thr His Gly Leu Lys Asn Arg Cys Phe Ile
 210 215 220 224

<210> 1974
 <211> 168
 <212> PRT
 <213> Homo sapiens
 <221> misc_feature
 <222> (1)...(168)
 <223> Xaa = any amino acid or nothing

<400> 1974
 Val Ser Cys Tyr Thr Ala Leu Gln Ser Ile Met Asn Gln Pro Glu Ser
 1 5 10 15


```

Ala Asn Asp Pro Glu Pro Leu Cys Ala Val Cys Gly Gln Ala His Ser
      20      25      30
Leu Glu Glu Asn His Phe Tyr Ser Tyr Pro Glu Glu Val Asp Asp Asp
      35      40      45
Leu Ile Cys His Ile Cys Leu Gln Ala Leu Leu Asp Pro Leu Asp Thr
      50      55      60
Pro Cys Gly His Thr Tyr Cys Thr Leu Cys Leu Thr Asn Phe Leu Val
      65      70      75      80
Glu Lys Asp Phe Cys Pro Met Asp Arg Lys Pro Leu Val Leu Gln His
      85      90      95
Cys Lys Lys Ser Ser Ile Leu Val Asn Lys Leu Leu Asn Lys Leu Leu
      100      105      110
Val Thr Cys Pro Phe Arg Glu His Cys Thr Gln Val Leu Gln Arg Cys
      115      120      125
Asp Leu Glu His His Phe Gln Thr Ser Gln Ala Trp Gly Thr His Leu
      130      135      140
Xaa Ser Gln Leu Leu Gly Arg Leu Arg Gln Glu Asp Cys Leu Ser Pro
      145      150      155      160
Gly Val His His Cys Ser Glu Val
      165      168

```

<210> 1975

<211> 48

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(48)

<223> Xaa = any amino acid or nothing

<400> 1975

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Cys Phe Leu Ser Pro Ser Pro Leu Leu Pro Pro Leu Leu Leu Ser Ser
  1      5      10      15
Ser Ser Ser Pro Ser Phe Pro Leu Pro Pro Pro Pro Thr Leu Leu Pro
      20      25      30
Ser Thr Leu Pro Pro Pro Leu Leu Ile Pro Ser Ser Xaa Leu Ser Pro
      35      40      45      48

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<210> 1976

<211> 81

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(81)

<223> Xaa = any amino acid or nothing

<400> 1976

```

Lys Leu Lys Gly Asn Glu Cys Phe Cys Tyr His Cys Asn Val Cys Ile
  1      5      10      15
Phe Leu Met Ile Lys Lys Xaa Gly Leu Phe Leu Cys Xaa Ile Tyr Phe
      20      25      30
Ile Leu Phe Phe Glu Thr Xaa Ser His Ser Phe Thr Arg Leu Glu Cys
      35      40      45
Ser Gly Thr Ile Ser Ala His Cys Ser Leu Gln Leu Gln Gly Ser Ser
      50      55      60

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Asn Ser Pro Ala Ser Ala Ser Gln Val Ala Gly Ile Ala Gly Thr His
 65 70 75 80
 His
 81

<210> 1977
 <211> 100
 <212> PRT
 <213> Homo sapiens
 <221> misc_feature
 <222> (1)...(100)
 <223> Xaa = any amino acid or nothing

<400> 1977
 Phe Phe Phe Phe Glu Thr Lys Pro Phe Phe Ala Pro Gln Ala Gly Gly
 1 5 10 15
 Gln Gly Pro Ser Arg Gly Ser Leu Asn Pro Leu Pro Thr Gly Leu Lys
 20 25 30
 Gln Phe Ser Gly Leu Thr Leu Ser Arg Ser Gly Asn Asn Gly Pro Arg
 35 40 45
 Pro Pro Pro Arg Val Asn Phe Gly Ile Leu Arg Gly Asn Gly Val Pro
 50 55 60
 Pro Gly Gly Ala Gly Xaa Pro Arg Pro Pro Asp Leu Arg Gly Pro Pro
 65 70 75 80
 Gly Leu Ala Pro Pro Gln Gly Gly Asn Asn Gly Gly Asp Pro Pro Ala
 85 90 95
 Arg Ala Tyr Leu
 100

<210> 1978
 <211> 191
 <212> PRT
 <213> Homo sapiens
 <221> misc_feature
 <222> (1)...(191)
 <223> Xaa = any amino acid or nothing

<400> 1978
 Lys Leu Phe Ser Ser Gln Arg Leu Phe Gly Pro His Ile Gln Ala Ile
 1 5 10 15
 Asn Pro Ser Phe Leu Leu Leu Ser Phe Phe Pro Ser Xaa Leu Leu Ala
 20 25 30
 Met Arg Thr Val Gly Asn Asn Ala Phe Ile Leu Val Phe Leu Val Tyr
 35 40 45
 Arg Ile Val Leu Leu Leu Phe Xaa His Val Xaa Pro Ala Tyr Phe Gln
 50 55 60
 Pro Ser Lys Asn Lys Thr Ala Lys Ile Asn Cys Asn Xaa Arg Pro Phe
 65 70 75 80
 Leu Phe Leu Val Cys Tyr Leu Leu Xaa Ala Glu Leu His Ile Gly Ile
 85 90 95
 Phe Ile Ala Asn Phe Tyr Asp Cys Ile Pro Asn Lys Leu Asn Glu His
 100 105 110
 Leu Trp Pro Lys Leu Leu Gln Ser Leu Ile Phe His Val Asp Phe Cys
 115 120 125
 Gly Phe Leu His Lys Val Phe Tyr Ile Cys Phe Thr Glu Phe Leu Leu
 130 135 140

```

Phe Leu Tyr Phe Leu Xaa Leu Phe Ile Ile Lys Val Ser Cys Ser Ile
145          150          155          160
Ile Xaa Cys Ser Thr Ile Cys Val Phe Ser Tyr Lys Ser Phe Ala Val
          165          170          175
Ile Ile Phe Phe Val Asp Asn Thr Arg Phe Phe Ser Phe Gly Phe
          180          185          190 191

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<210> 1979

<211> 326

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(326)

<223> Xaa = any amino acid or nothing

<400> 1979

```

His His Glu Leu His Thr Leu Glu Leu Leu Gln Asn Pro Lys Glu Val
1      5      10      15
Leu Thr Arg Ser Glu Ile Gln Asp Val Asn Tyr Ser Leu Glu Ala Val
          20      25      30
Lys Val Lys Thr Val Cys Gln Ile Pro Leu Met Lys Glu Met Leu Lys
          35      40      45
Arg Phe Gln Val Ala Val Asn Leu Ala Glu Asp Thr Ala His Pro Lys
          50      55      60
Leu Val Phe Ser Gln Glu Gly Arg Tyr Val Lys Asn Thr Ala Ser Ala
          65      70      75      80
Ser Ser Trp Pro Val Phe Ser Ser Ala Trp Asn Tyr Phe Ala Gly Trp
          85      90      95
Arg Asn Pro Gln Lys Thr Ala Phe Val Glu Arg Phe Gln His Leu Ser
          100     105     110
Cys Val Leu Gly Lys Asn Val Phe Thr Ser Gly Lys His Tyr Trp Glu
          115     120     125
Val Glu Ser Arg Asp Ser Leu Glu Val Ala Val Gly Val Cys Arg Glu
          130     135     140
Asp Val Met Gly Ile Thr Asp Arg Ser Lys Met Ser Pro Asp Val Gly
          145     150     155     160
Ile Trp Ala Ile Tyr Trp Ser Ala Ala Gly Tyr Trp Pro Leu Ile Gly
          165     170     175
Phe Pro Gly Thr Pro Thr Gln Gln Glu Pro Ala Leu His Arg Val Gly
          180     185     190
Val Tyr Leu Asp Arg Gly Thr Gly Asn Val Ser Phe Tyr Ser Ala Val
          195     200     205
Asp Gly Val His Leu His Thr Phe Ser Cys Ser Ser Val Ser Arg Leu
          210     215     220
Arg Pro Phe Phe Trp Leu Ser Pro Leu Ala Ser Leu Val Ile Pro Pro
          225     230     235     240
Val Thr Asp Arg Lys Xaa Gly Phe Ser Ser Pro Asp Gln Asn Ser Phe
          245     250     255
Pro Val Val Gln Leu Arg Asp Thr His Pro Trp Ala Leu Phe Cys Pro
          260     265     270
Ser Cys Leu Tyr Pro Gly Trp Ser Ile Phe Trp Val Ser Leu Thr Val
          275     280     285
Pro Phe Gly Ile Cys Pro Leu Cys Ala Ser Gln Glu Ala Val Pro Trp
          290     295     300
Glu Val Gly Leu Ala Asn Gly Asp Gly Thr Gly Asn Phe Pro Arg Arg
          305     310     315     320
Phe Trp Glu Ile Phe Leu
          325 326

```

<210> 1980
 <211> 118
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(118)
 <223> Xaa = any amino acid or nothing

<400> 1980
 Phe Phe Phe Phe Phe Glu Thr Glu Ser His Ser Val Ala Gln Ala Gly
 1 5 10 15
 Met Gln Trp Arg Asn Leu Gly Ser Leu Pro Ala Pro Pro Gly Phe
 20 25 30
 Thr Pro Phe Phe Cys Leu Ser Leu Leu Asn Gly Trp Asp Tyr Arg Arg
 35 40 45
 Pro Pro Pro His Leu Ala Asn Phe Phe Val Leu Leu Val Glu Thr Gly
 50 55 60
 Phe His Asp Val Gly Gln Asp Gly Leu Asp Leu Leu Thr Ser Xaa Ser
 65 70 75 80
 Thr Pro Ser Ala Ser Gln Ser Ala Glu Ile Thr Gly Val Ser His Cys
 85 90 95
 Thr Arg Leu Lys Lys Ile Arg Phe Ala Lys Gly His Val Glu Phe Phe
 100 105 110
 Phe Glu Ser His Val Glu
 115 118

<210> 1981
 <211> 113
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(113)
 <223> Xaa = any amino acid or nothing

<400> 1981
 Thr Pro Ile Arg Gly Thr Asp Asp Glu His Glu Glu Cys Thr Val Gln
 1 5 10 15
 Glu Tyr Ser Ala Gly Lys Asn Thr Cys Leu Arg Pro Gly Ala Val Ala
 20 25 30
 His Thr Cys Asn Pro Cys Thr Leu Gly Gly Arg Gly Arg Trp Ile Thr
 35 40 45
 Xaa Gly Ser Gly Val Gln Asp Gln Pro Gly Pro Thr Trp Gln Asn Pro
 50 55 60
 Val Phe Leu Glu Arg Arg Pro Arg Ala Leu His Ser Ser Pro Gly Leu
 65 70 75 80
 Thr Thr Gln Arg Ile Leu Trp Ala Gln Gly Leu Trp Val Gly Ala Gly
 85 90 95
 Ser Thr Gly Cys Ser Arg Gly Pro Arg Gly Glu Gly Val Phe Arg Glu
 100 105 110
 Gly
 113

<210> 1982
 <211> 93
 <212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(93)

<223> Xaa = any amino acid or nothing

<400> 1982

```

Arg Ser Thr His Ala Ser Gly Met Ile Ser Pro Ser Phe Gly Phe Met
 1      5      10      15
Gly His Leu Leu Arg Leu Glu Phe Glu Ile Leu Pro Ser Thr Pro Asn
      20      25      30
Pro Xaa Leu Pro Ser Tyr Gln Gly Glu Ala Ala Gly Ser Ser Leu Ile
      35      40      45
Ser His Leu Gln Thr Phe Ser Pro Asp Leu Lys Gly Val Tyr Cys Thr
      50      55      60
Phe Pro Ala Ser Gly Leu Ala Pro Val Pro Thr His Trp Thr Val Ser
      65      70      75      80
Glu Leu Ser Arg Ser Pro Val Ala Thr Ala Thr Phe Cys
      85      90      93

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<210> 1983

<211> 455

<212> PRT

<213> Homo sapiens

<400> 1983

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Arg Thr Leu Gly Met Glu Gly Glu Arg Arg Ala Ser Gln Ala Pro Ser
 1      5      10      15
Ser Gly Leu Pro Ala Gly Gly Ala Asn Gly Glu Ser Pro Gly Gly Gly
      20      25      30
Ala Pro Phe Pro Gly Ser Ser Gly Ser Ser Ala Leu Leu Gln Ala Glu
      35      40      45
Val Leu Asp Leu Asp Glu Asp Glu Asp Asp Leu Glu Val Phe Ser Lys
      50      55      60
Asp Ala Ser Leu Met Asp Met Asn Ser Phe Ser Pro Met Met Pro Thr
      65      70      75      80
Ser Pro Leu Ser Met Ile Asn Gln Ile Lys Phe Glu Asp Glu Pro Asp
      85      90      95
Leu Lys Asp Leu Phe Ile Thr Val Asp Glu Pro Glu Ser His Val Thr
      100      105      110
Thr Ile Glu Thr Phe Ile Thr Tyr Arg Ile Ile Thr Lys Thr Ser Arg
      115      120      125
Gly Glu Phe Asp Ser Ser Glu Phe Glu Val Arg Arg Tyr Gln Asp
      130      135      140
Phe Leu Trp Leu Lys Gly Lys Leu Glu Glu Ala His Pro Thr Leu Ile
      145      150      155      160
Ile Pro Pro Leu Pro Glu Lys Phe Ile Val Lys Gly Met Val Glu Arg
      165      170      175
Phe Asn Asp Asp Phe Ile Glu Thr Arg Arg Lys Ala Leu His Lys Phe
      180      185      190
Leu Asn Arg Ile Ala Asp His Pro Thr Leu Thr Phe Asn Glu Asp Phe
      195      200      205
Lys Ile Phe Leu Thr Ala Gln Ala Trp Glu Leu Ser Ser His Lys Lys
      210      215      220
Gln Gly Pro Gly Leu Leu Ser Arg Met Gly Gln Thr Val Arg Ala Val
      225      230      235      240
Ala Ser Ser Met Arg Gly Val Lys Asn Arg Pro Glu Glu Phe Met Glu
      245      250      255
Mat Asn Asn Phe Ile Glu Leu Phe Ser Gln Lys Ile Asn Leu Ile Asp
      260      265      270

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```

Lys Ile Ser Gln Arg Ile Tyr Lys Glu Glu Arg Glu Tyr Phe Asp Glu
      275              280              285
Met Lys Glu Tyr Gly Pro Ile His Ile Leu Trp Ser Ala Ser Glu Glu
      290              295              300
Asp Leu Val Asp Thr Leu Lys Asp Val Ala Ser Cys Ile Asp Arg Cys
305              310              315              320
Cys Lys Ala Thr Glu Lys Arg Met Ser Gly Leu Ser Glu Ala Leu Leu
              325              330              335
Pro Val Val His Glu Tyr Val Leu Tyr Ser Glu Met Leu Met Gly Val
              340              345              350
Met Lys Arg Arg Asp Gln Ile Gln Ala Glu Leu Asp Ser Lys Val Glu
              355              360              365
Val Leu Thr Tyr Lys Lys Ala Asp Thr Asp Leu Leu Pro Glu Glu Ile
      370              375              380
Gly Lys Leu Glu Asp Lys Val Glu Cys Ala Asn Asn Ala Leu Lys Ala
385              390              395              400
Asp Trp Glu Arg Trp Lys Gln Asn Met Gln Asn Asp Ile Lys Leu Ala
              405              410              415
Phe Thr Asp Met Ala Glu Glu Asn Ile His Tyr Tyr Glu Gln Cys Leu
              420              425              430
Ala Thr Trp Glu Ser Phe Leu Thr Ser Gln Thr Asn Leu His Leu Glu
              435              440              445
Glu Ala Ser Glu Asp Lys Pro
      450              455

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<210> 1984
<211> 87
<212> PRT
<213> Homo sapiens

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<221> misc_feature
<222> (1)...(87)
<223> Xaa = any amino acid or nothing

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<400> 1984
Ser Tyr Trp Val Gly Glu Asp Tyr Thr Tyr Lys Phe Phe Glu Val Ile
  1              5              10              15
Leu Ile Asp Pro Phe His Lys Ala Ile Arg Arg Asn Pro Asp Thr Gln
              20              25              30
Trp Ile Ser Lys Ala Val Tyr Lys His Arg Glu Met Cys Gly Leu Thr
      35              40              45
Ser Thr Gly Arg Lys Ser His Gly Leu Glu Lys Asp Arg Met Phe Pro
      50              55              60
His Ala Ile Gly Gly Ser Cys Arg Ala Ala Xaa Arg Arg Arg Lys Thr
      65              70              75              80
Leu Gln Phe Pro Cys Tyr His
              85              87

```

```

<210> 1985
<211> 99
<212> PRT
<213> Homo sapiens

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<221> misc_feature
<222> (1)...(99)
<223> Xaa = any amino acid or nothing

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<400> 1985

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Tyr Ile Lys Gln Pro Asp Ala Lys Glu Arg Arg Arg Thr Val His Trp
 1           5           10           15
Lys Lys Glu Thr Glu Ser Glu Ala Ser Glu Ile Thr Ile Pro Pro Ser
           20           25           30
Thr Pro Gly Val Pro Gln Ala Pro Gly His Trp Glu Asp Tyr Gly Arg
           35           40           45
Gly Asp Asn Phe Tyr Leu Pro His Xaa Asp Pro Gly Gly Ile Val Leu
           50           55           60
Trp Asn Ile Phe Asn Arg Met Pro Ile Ala Arg Lys Asn Ile Thr Asp
           65           70           75           80
Gly Glu His His Glu Tyr Leu Ile Glu Val Pro Arg Leu Phe His Thr
           85           90           95
Ser Glu Asp
           99

```

```

<210> 1986
<211> 116
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(116)
<223> Xaa = any amino acid or nothing

```

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<400> 1986
Glu Lys Pro Asp His Phe Phe Pro Glu Gly Thr Ser Phe Ile His Glu
 1           5           10           15
Pro Arg Arg Pro Asn Xaa Gly Asp Leu Val His Cys Leu Gly Gly Ile
           20           25           30
Ser Arg Ser Thr Thr Val Thr Val Ala Xaa Leu Met Gln Lys Leu Asn
           35           40           45
Leu Ser Met Asn Asp Ala Tyr Tyr Ile Val Ile Met Lys Met Ser Ser
           50           55           60
Ile Ser Pro Asn Phe Asn Ser Met Asp Gln Pro Leu Asp Phe Gln Arg
           65           70           75           80
Thr Leu Gly Leu Arg Ser Pro Cys Tyr Asn Arg Val Pro Ala Gln Lys
           85           90           95
Met Tyr Phe Thr Thr Pro Ser Asn His Asn Ala Tyr Gln Val Asp Ser
           100          105          110
Val Gln Ser Thr
           115 116

```

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<210> 1987
<211> 137
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(137)
<223> Xaa = any amino acid or nothing

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```

<400> 1987
Asn Thr Gly Leu Thr Cys Ser Ile Gln Arg Lys Cys Gly Glu Thr Gln
 1           5           10           15
Leu Tyr Arg Arg Glu Glu Asn Arg Leu Ile Leu Leu Leu Gln Asp His
           20           25           30
Leu Lys Ser Glu Ser Phe Gln Val Leu Thr Leu Ser Pro Arg Leu Glu
           35           40           45

```

```

Phe Ser Gly Leu Ile Ser Ala His Cys Asn Leu Arg Leu Pro Gly Ser
  50          55          60
Ser Asp Ser Ser Ala Ser Ser Ser Arg Ala Ala Gly Ile Thr Gly Val
  65          70          75          80
His His His Ala Trp Leu Ile Phe Phe Phe Leu Val Glu Thr Gly Phe
      85          90          95
Leu His Ala Gly Xaa Ala Gly Leu Glu Leu Leu Thr Ser Gly Asp Pro
      100          105          110
Pro Ala Ser Ala Ser Arg Ser Ala Gly Ile Thr Gly Val Ser His His
      115          120          125
Ala Arg Pro Arg Glu Thr Arg Phe Leu
      130          135          137

```

```

<210> 1988
<211> 189
<212> PRT
<213> Homo sapiens

```

```

<400> 1988
Gly Gly Met Asp Ser Arg Val Ser Gly Thr Thr Ser Asn Gly Glu Thr
  1          5          10          15
Lys Pro Val Tyr Pro Val Met Glu Lys Lys Glu Glu Asp Gly Thr Leu
      20          25          30
Glu Arg Gly His Trp Asn Asn Lys Met Glu Phe Val Leu Ser Val Ala
      35          40          45
Gly Glu Ile Ile Gly Leu Gly Asn Val Trp Arg Phe Pro Tyr Leu Cys
      50          55          60
Tyr Lys Asn Gly Gly Gly Ala Phe Phe Ile Pro Tyr Leu Val Phe Leu
      65          70          75          80
Phe Thr Cys Gly Ile Pro Val Phe Leu Leu Glu Thr Ala Leu Gly Gln
      85          90          95
Tyr Thr Ser Gln Gly Gly Val Thr Ala Trp Arg Lys Ile Cys Pro Ile
      100          105          110
Phe Glu Gly Ile Gly Tyr Ala Ser Gln Met Ile Val Ile Leu Leu Asn
      115          120          125
Val Tyr Tyr Ile Ile Val Leu Ala Trp Ala Leu Phe Tyr Leu Phe Ser
      130          135          140
Ser Phe Thr Ile Asp Leu Pro Trp Gly Gly Cys Tyr His Glu Trp Asn
      145          150          155          160
Thr Glu His Cys Met Glu Phe Gln Lys Thr Asn Gly Ser Leu Asn Gly
      165          170          175
Thr Ser Glu Asn Ala Thr Ser Pro Val Ile Glu Phe Trp
      180          185          189

```

```

<210> 1989
<211> 113
<212> PRT
<213> Homo sapiens

```

```

<221> misc_feature
<222> (1)...(113)
<223> Xaa = any amino acid or nothing

```

```

<400> 1989
Gln Gly Leu Thr Leu Leu Pro Arg Met Glu Cys Ser Ala Thr Ile Thr
  1          5          10          15
Ala His Cys Ser Leu Glu Leu Pro Gly Ser Ile Asp Leu Pro Thr Ser
      20          25          30

```



```

Ala Ser Xaa Val Ala Arg Thr Thr Gly Thr His His His Pro Trp Leu
      35              40              45
Ile Leu Val Leu Leu Leu Xaa Thr Trp Gly Ser Tyr Tyr Val Ala Gln
      50              55              60
Ala Gly Leu Glu Leu Leu Gly Ser Ser Asn Leu Pro Ala Ala Met Val
      65              70              75              80
Ser Gln Ser Ala Gln Ile Ile Gly His Asp His Cys Ala Trp Ala Thr
      85              90              95
Ser Asn His Val Leu Tyr Thr Gln Glu Gly Leu Arg Arg Gly Lys Glu
      100              105              110
Gly
113

```

```

<210> 1990
<211> 175
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(175)
<223> Xaa = any amino acid or nothing

```

```

<400> 1990
Gly Arg Ile Asp Cys Pro His Pro Ala Thr Val Leu Ala Gln Pro Ile
 1              5              10              15
Phe Ile Asp Ala Cys Ser Val Leu Gly Ala Tyr Gln Gly Ala Gln Asn
      20              25              30
Trp Ile Arg Arg Arg Pro Cys Leu Pro Ser Gly Cys Leu Lys Met Asn
      35              40              45
Arg Glu Ile Gly Pro Leu Gln His Ser Leu Cys Cys Pro Gly Trp Ser
      50              55              60
Gln Thr Pro Gly Leu Lys Ala Ile Leu Leu Arg Gln Pro Pro Lys Xaa
      65              70              75              80
Leu Gly Leu Gln Met Glu Ser His Ser Cys Pro Pro Ala Trp Ser Ala
      85              90              95
Met Ala Arg Ser Arg Leu Thr Ala Thr Ser Ala Ser Gln Val Gln Ala
      100              105              110
Ile Leu Leu Pro Gln Pro Pro Gly Thr Thr Asp Ser Cys Ser Pro Ser
      115              120              125
Pro Asp His Glu Gln Gln Pro Leu Ser Trp Val Leu Pro Pro Pro Gln
      130              135              140
Lys Asp Met Asn Pro Arg Glu Gln Gln Val Ala Leu Gly Pro Gln Ala
      145              150              155              160
Ala Ala Leu Pro Trp Ala Val Trp Arg Asn Asp Cys Phe Pro Arg
      165              170              175

```

```

<210> 1991
<211> 152
<212> PRT
<213> Homo sapiens

```

```

<400> 1991
Arg Pro Ser Ser Gln Cys Gly Gly Ile Pro Thr Gly Trp Lys Lys Gly
 1              5              10              15
Leu Ala Pro Glu Leu Ser Ser Glu Leu Ser Ser Pro Pro Leu Pro Ala
      20              25              30
Arg Leu Gln Leu Ala Ala Ser Pro Tyr Phe Ser Pro Ser Trp Ala Glu
      35              40              45

```

```

Cys Pro Gln Pro Val Pro Ala Gly Thr His Ala Thr Trp Cys Leu Ala
  50          55          60
Arg Val Trp Ala Arg Met Thr Pro Pro Gly Pro Ala Gly Ile Pro Ser
  65          70          75          80
His Pro Leu Pro Pro Pro Pro Glu Arg Ser Val Pro Ile Pro Ser
          85          90          95
Pro Phe Pro Ala Arg Asp Ser Gly Ser Arg Gln Gly His Ser Thr Asp
          100          105          110
Arg Tyr Lys His Thr Asp Ala Pro Arg Asp Ala His Arg Arg Val Pro
          115          120          125
Gln Arg Asp Thr Asp Thr Gly Val His Thr Gly Ser Gly Thr His Thr
          130          135          140
His Ala His Thr Pro Pro Glu Lys
145          150          152

```

```

<210> 1992
<211> 162
<212> PRT
<213> Homo sapiens

```

```

<400> 1992
Gly Tyr Ser Phe Arg Cys Asp Ile Val Asp Tyr Ser Arg Ser Pro Thr
  1          5          10          15
Ala Leu Arg Met Ala Arg Thr Cys Trp Leu Tyr Tyr Phe Ser Lys Phe
          20          25          30
Ile Glu Leu Leu Asp Thr Ile Phe Phe Val Leu Arg Lys Lys Asn Ser
          35          40          45
Gln Val Thr Phe Leu His Val Phe His His Thr Ile Met Pro Trp Thr
          50          55          60
Trp Trp Phe Gly Val Lys Phe Ala Ala Gly Gly Leu Gly Thr Phe His
          65          70          75          80
Ala Leu Leu Asn Thr Ala Val His Val Val Met Tyr Ser Tyr Tyr Gly
          85          90          95
Leu Ser Ala Leu Gly Pro Ala Tyr Gln Lys Tyr Leu Trp Trp Lys Lys
          100          105          110
Tyr Leu Thr Ser Leu Gln Leu Val Gln Phe Val Ile Val Ala Ile His
          115          120          125
Ile Ser Gln Phe Phe Phe Met Glu Asp Cys Lys Tyr Gln Phe Pro Val
          130          135          140
Phe Ala Cys Ile Ile Met Ser Tyr Ser Phe Met Phe Leu Leu Leu Phe
145          150          155          160
Leu His
162

```

```

<210> 1993
<211> 146
<212> PRT
<213> Homo sapiens

```

```

<221> misc_feature
<222> .(1)...(146)
<223> Xaa = any amino acid or nothing

```

```

<400> 1993
Leu Met Ala Phe Ile Glu Met His Ile Ser Gly Ser Leu Val Tyr Leu
  1          5          10          15
Lys Ile Lys Thr Lys Ile Tyr Ser Tyr Phe Ser Met Leu Asn Phe Leu
          20          25          30

```

```

Leu Gln Glu Ile Pro Leu Ser Glu Ile Leu Arg Ile Ser Ser Pro Arg
      35              40              45
Asp Phe Thr Asn Ile Ser Gln Gly Ser Asn Pro His Cys Phe Glu Ile
      50              55              60
Ile Thr Asp Thr Met Val Tyr Phe Val Gly Glu Asn Asn Gly Asp Ser
      65              70              75              80
Ser His Asn Pro Val Leu Ala Ala Thr Gly Val Gly Leu Asp Val Ala
      85              90              95
Gln Ser Trp Glu Lys Ala Ile Arg Gln Ala Leu Met Pro Val Thr Pro
      100             105             110
Gln Ala Ser Val Cys Thr Ser Pro Gly Gln Gly Lys Asp His Ser Lys
      115             120             125
Gln Xaa Ala Ser Val Cys Thr Ser Pro Gly Gln Gly Lys Asp His Ser
      130             135             140
Lys Gln
145 146

```

<210> 1994
 <211> 117
 <212> PRT
 <213> Homo sapiens

```

<400> 1994
Ala Tyr Pro Leu Phe Ala Val His Pro Val His Thr Glu Cys Val Ala
  1              5              10              15
Gly Val Val Gly Arg Ala Tyr Leu Leu Cys Ala Leu Phe Phe Leu Leu
      20              25              30
Ser Phe Leu Gly Tyr Cys Lys Ala Phe Arg Glu Ser Asn Lys Glu Gly
      35              40              45
Ala His Ser Ser Thr Phe Trp Val Leu Leu Ser Ile Phe Leu Gly Ala
      50              55              60
Val Ala Met Leu Cys Lys Glu Gln Gly Ile Thr Val Leu Val Arg Ala
      65              70              75              80
Ala Thr Trp Leu Gly Pro Ala Phe Ser Val Cys Pro Phe Pro Ser Tyr
      85              90              95
Lys Asp Ile Trp Gly Trp Pro Cys Leu Cys Gly Val Leu His Ala Tyr
      100             105             110
Ile Pro Leu Leu Val
      115             117

```

<210> 1995
 <211> 110
 <212> PRT
 <213> Homo sapiens

```

<400> 1995
Leu Leu Trp Thr Thr Val Leu Cys Gln Thr Pro Ala Arg Pro Gln Ser
  1              5              10              15
Thr Met Ile His Leu Gly His Ile Leu Phe Leu Leu Leu Leu Pro Val
      20              25              30
Ala Ala Ala Gln Thr Thr Pro Gly Glu Arg Ser Ser Leu Pro Ala Phe
      35              40              45
Tyr Pro Gly Thr Ser Gly Ser Cys Ser Gly Cys Gly Ser Leu Ser Leu
      50              55              60
Pro Leu Leu Ala Gly Leu Val Ala Ala Asp Ala Val Ala Ser Leu Leu
      65              70              75              80
Ile Val Gly Ala Val Phe Leu Cys Ala Arg Pro Arg Arg Ser Pro Ala
      85              90              95

```

Gln Glu Asp Gly Lys Val Tyr Ile Asn Met Pro Gly Arg Gly
 100 105 110

<210> 1996
 <211> 328
 <212> PRT
 <213> Homo sapiens
 <221> misc_feature
 <222> (1)...(328)
 <223> Xaa = any amino acid or nothing

<400> 1996
 Leu Gln Gly Asp Thr Trp His Leu Ser Phe Leu Ser His Phe Ser Arg
 1 5 10 15
 Leu His Gly Gly Val Pro Gly Arg Gly Leu Leu Glu Gly Asn Leu Leu
 20 25 30
 Gln Pro Gln Ala Pro Gly His Asp Met Thr Ser Ile Pro Phe Pro Gly
 35 40 45
 Asp Arg Leu Leu Gln Val Asp Gly Val Ile Leu Cys Gly Leu Thr His
 50 55 60
 Lys Gln Ala Val Gln Cys Leu Lys Gly Pro Gly Gln Val Ala Arg Leu
 65 70 75 80
 Val Leu Glu Arg Arg Val Pro Arg Ser Thr Gln Gln Cys Pro Ser Ala
 85 90 95
 Asn Asp Ser Met Gly Asp Glu Arg Thr Ala Val Ser Leu Val Thr Ala
 100 105 110
 Leu Pro Gly Arg Pro Ser Ser Cys Val Ser Val Thr Asp Gly Pro Lys
 115 120 125
 Phe Xaa Ser Ser Asn Xaa Lys Arg Ile Ala Asn Gly Leu Gly Phe Ser
 130 135 140
 Phe Val Gln Met Glu Lys Glu Ser Cys Ser His Leu Lys Ser Asp Leu
 145 150 155 160
 Val Arg Ile Lys Arg Leu Phe Pro Gly His Pro Ala Glu Glu Asn Gly
 165 170 175
 Ala Ile Ala Ala Gly Asp Ile Ile Leu Gly Arg Glu Trp Glu Gly Pro
 180 185 190
 Arg Lys Ala Ser Ser Ser Arg Cys Arg Gly Ser Trp Ala Met Gln Leu
 195 200 205
 Ser Val Gln Ala Gly Pro Ser Phe Ala Ser Tyr Tyr Pro Ala Ala Val
 210 215 220
 Glu Val Leu His Leu Leu Arg Gly Ala Pro Gln Glu Val Thr Leu Leu
 225 230 235 240
 Leu Cys Arg Pro Pro Pro Gly Ala Leu Pro Glu Leu Glu Gln Glu Trp
 245 250 255
 Gln Thr Pro Glu Leu Ser Ala Asp Lys Glu Phe Thr Arg Ala Thr Cys
 260 265 270
 Thr Asp Ser Cys Thr Ser Pro Ile Leu Gly Ser Arg Gly Gln Leu Gly
 275 280 285
 Gly Thr Val Pro Pro Gln Met Gln Gly Lys Ala Trp Gly Leu Arg Pro
 290 295 300
 Glu Ser Ser Gln Lys Ala Ile Arg Glu Gly Thr Met Gly Ala Lys Thr
 305 310 315 320
 Glu Arg Asp Leu Gly Pro Val Pro
 325 328

<210> 1997
 <211> 236
 <212> PRT

<213> Homo sapiens

<400> 1997

```

Pro Arg Val Arg Gly Asp Trp Pro Leu Glu Lys Lys Lys Ser Asn Ser
 1           5           10           15
Asn Ile His Pro Ile Phe Ser Trp Cys Gly Ser Thr Asp Ser Lys Asp
          20           25           30
Ile Val Met Pro Thr Tyr Asp Leu Thr Asp Ser Val Leu Glu Thr Met
          35           40           45
Gly Arg Val Ser Leu Asp Met Met Ser Val Gln Ala Asn Thr Gly Pro
          50           55           60
Pro Trp Glu Ser Lys Asn Ser Thr Ala Val Trp Arg Gly Arg Asp Ser
 65           70           75           80
Arg Lys Glu Arg Leu Glu Leu Val Lys Leu Ser Arg Lys His Pro Glu
          85           90           95
Leu Ile Asp Ala Ala Phe Thr Asn Phe Phe Phe Phe Lys His Asp Glu
          100          105          110
Asn Leu Tyr Gly Pro Ile Val Lys His Ile Ser Phe Phe Asp Phe Phe
          115          120          125
Lys His Lys Tyr Gln Ile Asn Ile Asp Gly Thr Val Ala Ala Tyr Arg
          130          135          140
Leu Pro Tyr Leu Leu Val Gly Asp Ser Val Val Leu Lys Gln Asp Ser
          145          150          155          160
Ile Tyr Tyr Glu His Phe Tyr Asn Glu Leu Gln Pro Trp Lys His Tyr
          165          170          175
Ile Pro Val Lys Ser Asn Leu Ser Asp Leu Leu Glu Lys Leu Lys Trp
          180          185          190
Ala Lys Asp His Asp Glu Glu Ala Lys Lys Ile Ala Lys Ala Gly Gln
          195          200          205
Glu Phe Ala Arg Asn Asn Leu Met Gly Asp Asp Ile Phe Cys Tyr Tyr
          210          215          220
Phe Gln Thr Phe Pro Arg Asn Met Pro Ile Tyr Lys
          225          230          235          236

```

<210> 1998

<211> 397

<212> PRT

<213> Homo sapiens

<400> 1998

```

Ala Gly Met Leu Pro Ala Val Gly Ser Ala Asp Glu Glu Glu Asp Pro
 1           5           10           15
Ala Glu Glu Asp Cys Pro Glu Leu Val Pro Met Glu Thr Thr Gln Ser
          20           25           30
Glu Glu Glu Glu Lys Ser Gly Leu Gly Ala Lys Ile Pro Val Thr Ile
          35           40           45
Ile Thr Gly Tyr Leu Gly Ala Gly Lys Thr Thr Leu Leu Asn Tyr Ile
          50           55           60
Leu Thr Glu Gln His Ser Lys Arg Val Ala Val Ile Leu Asn Glu Phe
          65           70           75           80
Gly Glu Gly Ser Ala Leu Glu Lys Ser Leu Ala Val Ser Gln Gly Gly
          85           90           95
Glu Leu Tyr Glu Glu Trp Leu Glu Leu Arg Asn Gly Cys Leu Cys Cys
          100          105          110
Ser Val Lys Asp Asn Gly Leu Arg Ala Ile Glu Asn Leu Met Gln Lys
          115          120          125
Lys Gly Lys Phe Asp Tyr Ile Leu Leu Glu Thr Thr Gly Leu Ala Asp
          130          135          140
Pro Gly Ala Val Ala Ser Met Phe Trp Val Asp Ala Glu Leu Gly Ser
          145          150          155          160

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```

Asp Ile Tyr Leu Asp Gly Ile Ile Thr Ile Val Asp Ser Lys Tyr Gly
      165      170      175
Leu Lys His Leu Ala Glu Glu Lys Pro Asp Gly Leu Ile Asn Glu Ala
      180      185      190
Thr Arg Gln Val Ala Leu Ala Asp Ala Ile Leu Ile Asn Lys Thr Asp
      195      200      205
Leu Val Pro Glu Glu Asp Val Lys Lys Leu Arg Thr Thr Ile Arg Ser
      210      215      220
Ile Asn Gly Leu Gly Gln Ile Leu Glu Thr Gln Arg Ser Arg Val Asp
225      230      235      240
Leu Ser Asn Val Leu Asp Leu His Ala Phe Asp Ser Leu Ser Gly Ile
      245      250      255
Ser Leu Gln Lys Lys Leu Gln His Val Pro Gly Thr Gln Pro His Leu
      260      265      270
Asp Gln Ser Ile Val Thr Ile Thr Phe Asp Val Pro Gly Asn Ala Lys
      275      280      285
Glu Glu His Leu Asn Met Phe Ile Gln Asn Leu Leu Trp Glu Lys Asn
      290      295      300
Val Arg Asn Lys Asp Asn His Cys Met Glu Val Ile Arg Leu Lys Gly
305      310      315      320
Leu Val Ser Ile Lys Asp Lys Ser Gln Gln Val Ile Val Gln Gly Val
      325      330      335
His Glu Leu Tyr Asp Leu Glu Glu Thr Pro Val Ser Trp Lys Asp Asp
      340      345      350
Thr Glu Arg Thr Asn Arg Leu Val Leu Leu Gly Arg Asn Leu Asp Lys
      355      360      365
Asp Ile Leu Lys Gln Leu Phe Ile Ala Thr Val Thr Glu Thr Glu Lys
      370      375      380
Gln Trp Thr Thr His Phe Lys Glu Asp Gln Val Cys Thr
385      390      395      397

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```

<210> 1999
<211> 109
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(109)
<223> Xaa = any amino acid or nothing

```

```

<400> 1999
Asp Gly Val Ser Leu Leu Leu Pro Lys Leu Gly Val Gln Trp Ala Gln
 1      5      10      15
Tyr Trp Ala His Trp Gln Pro Pro Leu Pro Gly Phe Lys Arg Phe Ser
      20      25      30
Cys Leu Ser Leu Arg Ser Ser Trp Asp Xaa Lys Cys Ala Pro Pro His
      35      40      45
Pro Ala Phe Val Phe Leu Val Glu Met Gly Phe His Arg Val Gly Gln
      50      55      60
Ala Gly Leu Glu Leu Arg Thr Ser Gly Asp Pro Pro Ala Ser Ala Ser
      65      70      75      80
Gln Ser Ala Gly Ile Thr Gly Val Ser His Leu Ala Xaa Pro Thr Ser
      85      90      95
Met Pro Leu Leu Pro Phe Gln Arg Leu Cys Val Tyr Ile
      100      105      109

```

```

<210> 2000
<211> 145
<212> PRT

```

<213> Homo sapiens

<221> misc_feature

<222> (1)...(145)

<223> Xaa = any amino acid or nothing

<400> 2000

```

Phe Phe Phe Leu Arg Arg Ser Phe Ala Phe Val Ala Gln Ala Gly Val
 1           5           10           15
Gln Trp Cys Asp Leu Gly Ser Pro Gln Pro Leu Pro Pro Gly Phe Lys
           20           25           30
Xaa Phe Ser Cys Leu Ser Leu Pro Ser Ser Trp Asp Tyr Arg His Ala
           35           40           45
Pro Pro Pro Cys Pro Ser Xaa Phe Leu Tyr Phe Xaa Xaa Arg Gln Gly
           50           55           60
Phe Thr Met Leu Ala Arg Leu Val Leu Asn Ser Xaa Pro His Asp Leu
           65           70           75           80
Pro Thr Ser Pro Ser Gln Ser Ala Glu Ile Lys Gly Val Ser His Arg
           85           90           95
Cys Pro Ala Ser Phe Tyr Leu Phe Leu Lys Tyr Tyr Leu Glu Ala Lys
           100          105          110
Phe Cys Ala Xaa Gly Glu Cys Ala Pro Ser Ala Gly Val Gly Ala Gly
           115          120          125
Tyr Lys Arg Gly His Lys Ser Cys Leu Leu Ile Asn Cys Val Val Gln
           130          135          140
Ile
145

```

<210> 2001

<211> 309

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(309)

<223> Xaa = any amino acid or nothing

<400> 2001

```

Asp Ala Trp Gly Pro Glu Thr Arg Leu Ala Arg Ile Leu Asn Pro Asp
 1           5           10           15
Ser Phe Ile Glu Pro Arg Pro Gly Arg Leu Pro Glu Leu Glu Ala Thr
           20           25           30
Arg Pro His Met Glu Pro Lys Ala Ser Cys Pro Ala Ala Ala Pro Leu
           35           40           45
Met Glu Arg Lys Phe His Val Leu Val Gly Val Thr Gly Ser Val Ala
           50           55           60
Ala Leu Lys Leu Pro Leu Leu Val Ser Lys Leu Leu Asp Ile Pro Gly
           65           70           75           80
Leu Glu Val Ala Val Val Thr Thr Glu Arg Ala Lys His Phe Tyr Ser
           85           90           95
Pro Gln Asp Ile Pro Val Thr Leu Tyr Ser Asp Ala Asp Glu Trp Glu
           100          105          110
Met Trp Lys Ser Arg Ser Asp Pro Val Leu His Ile Asp Leu Arg Arg
           115          120          125
Trp Ala Asp Leu Leu Leu Val Ala Pro Leu Asp Ala Asn Thr Leu Gly
           130          135          140
Lys Val Ala Ser Gly Ile Cys Asp Asn Leu Leu Thr Cys Val Met Arg
           145          150          155          160
Ala Trp Asp Arg Ser Lys Pro Leu Leu Phe Cys Pro Ala Met Asn Thr
           165          170          175

```

```

Ala Met Trp Glu His Pro Ile Thr Ala Gln Gln Val Asp Gln Leu Lys
      180      185      190
Ala Phe Gly Tyr Val Glu Ile Pro Cys Val Ala Lys Lys Leu Val Cys
      195      200      205
Gly Asp Glu Gly Leu Gly Ala Met Ala Glu Val Gly Thr Ile Val Asp
      210      215      220
Lys Val Lys Glu Val Leu Phe Gln His Ser Gly Phe Gln Gln Ser Xaa
      225      230      235      240
Pro Gly Ile Ser Val Met Gly Val Pro Leu Tyr Ser Glu Trp Val Gln
      245      250      255
Ala Lys Ser Val Lys Met Asp Val Gly Lys Ile Gly Gly Tyr Pro His
      260      265      270
Leu Leu Asn Gly Gly Pro Ala Leu Ser Leu Pro Arg Gly Gln Ala Cys
      275      280      285
Ser Arg Leu Asn Trp Thr Glu Gly Pro Gly Leu Ser Phe Phe Gln Pro
      290      295      300
Gly Glu Ala Ala Ala
      305      309

```

```

<210> 2002
<211> 203
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(203)
<223> Xaa = any amino acid or nothing

```

```

<400> 2002
Phe Arg Gly Arg Gln Thr Ser Arg Pro Ala Arg Gly Phe Ser Pro Trp
 1      5      10      15
Arg Pro Pro Gly Thr Met Gln Glu Pro Ser Ser Gly Glu Cys Pro Ala
      20      25      30
Ser Pro Xaa Leu Pro Cys Ala Ser Asn Arg Leu Ala Phe Gly Gly Leu
      35      40      45
Ile Phe Pro Cys Ala Pro Leu Val Pro Tyr Pro Ala Pro Phe Ser Pro
      50      55      60
Leu Leu Pro Ala Phe Ser Cys Ala Pro Arg Pro Arg Ala His Thr His
      65      70      75      80
Ser Arg Thr His Pro Ser Ala Pro Leu Val Pro Lys Pro Ser Ser Arg
      85      90      95
Ala Arg Gly Gln Ser Pro Ile Pro Ser Arg Ala Ser Ser Pro Ser Cys
      100      105      110
Ser Trp Ala Gln Val Pro Gly Val Ala Leu Ala Arg Cys Ala Gly Val
      115      120      125
Cys Lys Pro Gly Asp Ser Trp Arg Val Ala Ala Cys Ile Ser Gly Arg
      130      135      140
Cys Cys Ser Arg Gly Arg Arg Gly Ser Gly Pro Arg Asn Pro Glu
      145      150      155      160
Gln Ser Phe Arg Gly Ala Trp Gly Pro Ser Phe Trp Gly Ser Trp Lys
      165      170      175
Ser Gln Arg Glu Leu Ser Ala Gly Gly Ala Gln Ala Trp Pro Leu Leu
      180      185      190
Gly Ser Ala Gly Ser Gly Leu Arg Gly Glu Ala
      195      200      203

```

```

<210> 2003
<211> 93
<212> PRT

```


<213> Homo sapiens

<221> misc_feature

<222> (1)...(93)

<223> Xaa = any amino acid or nothing

<400> 2003

```

Phe Phe Phe Phe Ile Xaa Asp Gly Val Ser Leu Cys His Pro Gly Trp
 1           5           10          15
Asn Ala Val Ala Arg Ser Trp Leu Thr Ala Thr Ser Ala Ser Arg Val
          20          25          30
Gln Ala Val Ser Cys Phe Arg Leu Pro Ser Ser Trp Asp Tyr Arg His
          35          40          45
Ala Thr Met Pro Gly Xaa Phe Phe Xaa Tyr Phe Xaa Xaa Arg Trp Gly
          50          55          60
Phe Thr Ile Leu Ala Ile Leu Val Leu Asn Ser Xaa Pro Gln Val Ile
          65          70          75          80
Cys Pro Pro Trp Pro Pro Lys Val Leu Thr Leu Gln Ala
          85          90          93

```

<210> 2004

<211> 144

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(144)

<223> Xaa = any amino acid or nothing

<400> 2004

```

Arg Pro Gly Ile Pro Gly Arg Arg Phe Arg Arg Ser Trp Phe Cys Gln
 1           5           10          15
Leu Pro Xaa Glu Pro Glu Pro Gly Leu Glu Ser Leu Ala Thr Pro Gly
          20          25          30
Asp Ile Pro Ala Val Gly Leu Gly Ala Leu Gly Val Ile Pro Pro Val
          35          40          45
Arg Val Pro Gln Arg Pro Pro Thr Gln Arg Ser Gln Gly Arg Gly Trp
          50          55          60
Asp Pro Glu Arg Asp Pro Gly Cys Arg Val Gln Val Ser Arg Gly Pro
          65          70          75          80
Arg Phe Gly Glu Gln Lys Thr Pro Gly Leu Gln Gly Cys Leu Pro Pro
          85          90          95
Pro Cys Leu Thr His Leu Ala Ala Ala Ser Cys Val Val Val Trp Cys
          100         105         110
Gly Arg Trp Lys Arg Asp Ser Ala Glu Cys Gln Cys Asp His Ser Cys
          115         120         125
Ser Ala Val Ser Gln Gln Glu Asp Arg Cys Arg Ser Ser Ser Cys Ser
          130         135         140         144

```

<210> 2005

<211> 65

<212> PRT

<213> Homo sapiens

<400> 2005

```

Met Asn Asn Asn Thr Thr Cys Ile Gln Pro Ser Met Ile Ser Ser Met
 1          5          10          15
Ala Leu Pro Ile Ile Tyr Ile Leu Leu Cys Ile Val Gly Val Phe Gly
          20          25          30
Asn Thr Leu Ser Gln Trp Ile Phe Leu Thr Lys Ile Gly Lys Lys Thr
          35          40          45
Ser Thr His Ile Tyr Leu Ser His Leu Val Thr Ala Asn Leu Leu Val
 50          55          60
Cys
65

```

```

<210> 2006
<211> 57
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(57)
<223> Xaa = any amino acid or nothing

```

```

<400> 2006
Leu Val His Lys Asp Met Tyr Arg Glu Phe Phe Glu Glu Glu Ala Gln
 1          5          10          15
Ala Ser Asn Lys His Val Thr Arg Cys Leu Thr Ser Leu Val Ile Arg
          20          25          30
Glu Val His Ile Lys Thr Met Arg Xaa His Phe Leu Pro Ile Arg Leu
          35          40          45
Glu Lys Asn Lys Asn Asn Ile Lys Asp
 50          55          57

```

```

<210> 2007
<211> 114
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(114)
<223> Xaa = any amino acid or nothing

```

```

<400> 2007
Met Ala Gly Met Lys Thr Ala Ser Gly Asp Tyr Ile Asp Ser Ser Trp
 1          5          10          15
Glu Leu Arg Val Phe Val Gly Glu Glu Asp Pro Glu Ala Glu Ser Val
          20          25          30
Thr Leu Arg Val Thr Gly Glu Ser His Ile Gly Gly Val Leu Leu Lys
          35          40          45
Ile Val Glu Gln Ile Asn Arg Lys Gln Asp Trp Ser Asp His Ala Ile
          50          55          60
Trp Trp Glu Gln Lys Arg Gln Trp Leu Leu Gln Thr His Trp Thr Leu
          65          70          75          80
Asp Lys Tyr Gly Ile Leu Ala Asp Ala Arg Leu Phe Phe Gly Pro Gln
          85          90          95
His Arg Pro Val Ile Leu Arg Leu Pro Asn Arg Arg Ala Leu Arg Leu
          100          105          110
Xaa *
113

```

<210> 2008
 <211> 97
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(97)
 <223> Xaa = any amino acid or nothing

<400> 2008
 Phe Phe Phe Phe Lys Glu Thr Glu Ser His Ser Val Thr Gln Ala Gly
 1 5 10 15
 Val Gln Trp His Asp Leu Gly Ser Leu Gln Pro Pro Pro Pro Gly Phe
 20 25 30
 Lys Arg Phe Ser Cys Leu Ser Leu Leu Ser Ser Trp Asp Tyr Arg Cys
 35 40 45
 Ala Pro Pro His Pro Ala Asn Phe Val Phe Leu Val Glu Thr Gly Phe
 50 55 60
 His His Val Ala Gln Ala Gly Leu Lys Leu Leu Thr Leu Xaa Ser Ala
 65 70 75 80
 Asn Leu Gly Leu Ser Thr Ser Leu Pro Ile Pro Leu Phe Ile Leu Leu
 85 90 95
 Ser
 97

<210> 2009
 <211> 107
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(107)
 <223> Xaa = any amino acid or nothing

<400> 2009
 Arg Gly His Gly Gly Lys Ser Leu Thr Gly Gly Thr Pro Gly Asn Trp
 1 5 10 15
 Gly Asp Gly Leu Leu Val Ser Glu Asp Trp Ser His Leu Ile Phe Thr
 20 25 30
 Xaa Asn Ser Leu Val Ser Pro Val Leu Gly Lys Trp Ser Pro Cys Leu
 35 40 45
 Gln Gly Pro Gly Leu Ser Ala Val His Thr Trp Pro Trp Leu Met Ala
 50 55 60
 Ala Cys Trp Ala Val His Val Lys Thr His Met Arg Pro Gly Leu Ala
 65 70 75 80
 Val Leu Pro Arg Leu Val Leu Asn Ser Trp Ser Xaa Ala Ile Ile Leu
 85 90 95
 Leu Trp Pro Pro Lys Ala Leu Gly Leu Gln Ala
 100 105 107

<210> 2010
 <211> 102
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(102)

<223> Xaa = any amino acid or nothing

<400> 2010

```

Ser Arg Val Asp Asp Phe Val Gly Glu Arg Arg Gly Gly Cys Asp Glu
 1          5          10          15
Cys Leu Cys Gly His Arg Gly Leu Arg Ala Val Pro Leu Gly His Pro
          20          25          30
Gly His Leu Cys Leu Gln Pro Pro Gly Gly Pro Ala Xaa Phe Leu Asp
          35          40          45
Tyr Cys Arg Gly Cys Cys Pro His Pro Val Pro Gly Ser Thr Ala Gly
          50          55          60
Ser Cys Pro Arg Gln Lys Lys Thr Thr Pro Gly Pro Thr Val Leu Cys
          65          70          75          80
Val Cys Ser Phe Trp Ile Tyr Gln Arg Gly Glu Pro His His Arg Thr
          85          90          95
Gly Ala Arg Trp Asn His
          100          102

```

<210> 2011

<211> 107

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(107)

<223> Xaa = any amino acid or nothing

<400> 2011

```

Arg Gln Ser Cys Ser Ser Thr Gln Ala Lys Val Gln Trp Phe His Tyr
 1          5          10          15
Gly Pro Leu Gln Ser Gln Pro Pro Gly Leu Lys Gln Ser Ser Gln Leu
          20          25          30
Ser Leu Pro Asn Ser Arg Asp His Arg His Val Pro Pro Arg Leu Ala
          35          40          45
Ile Phe Ser Phe Ala Glu Thr Gly Ser Pro Tyr Phe Ala Gln Ala Ser
          50          55          60
Leu Glu Leu Leu Gly Ser Ser His Pro Pro Thr Ser Ala Ser Gln Ser
          65          70          75          80
Ala Arg Ile Thr Gly Val Ser His Arg Ala Trp Pro Leu Lys Xaa Phe
          85          90          95
Asn Leu Asn Gln Tyr Gln Thr Leu Thr Met Asn
          100          105          107

```

<210> 2012

<211> 214

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(214)

<223> Xaa = any amino acid or nothing

<400> 2012

```

Glu Leu Asn Asn Gly Pro Phe Gln Met Pro Leu Cys Asn Gly Gly Asn
 1          5          10          15
Leu Ala Val Thr Gly Ser Trp Ala Asp Arg Ser Pro Leu His Glu Ala
          20          25          30

```

Ala Ser Gln Gly Arg Leu Leu Ala Leu Arg Thr Leu Leu Ser Gln Gly
 35 40 45
 Tyr Asn Val Asn Ala Val Thr Leu Asp His Val Thr Pro Leu His Glu
 50 55 60
 Ala Cys Leu Gly Asp His Val Ala Cys Ala Arg Thr Leu Leu Glu Ala
 65 70 75 80
 Gly Ala Asn Val Asn Ala Ile Thr Ile Asp Gly Val Thr Pro Leu Phe
 85 90 95
 Asn Ala Cys Ser Gln Gly Ser Pro Ser Cys Ala Glu Leu Leu Glu
 100 105 110
 Tyr Gly Ala Gln Ala Gln Leu Glu Ser Cys Leu Pro Ser Pro Thr His
 115 120 125
 Glu Gly Ala Ser Lys Gly His His Glu Cys Leu Asp Ile Leu Ile Ser
 130 135 140
 Trp Gly Ile Asp Val Asp Gln Glu Ile Pro His Ser Gly Thr Pro Leu
 145 150 155 160
 Tyr Val Ala Cys Met Ala Gln Gln Phe His Cys Ile Trp Asn Leu Ile
 165 170 175
 Tyr Ala Gly Ala Gly Val Arg Lys Gly Lys Tyr Trp Asp Thr Pro Leu
 180 185 190
 Pro Gly Ala Gly His Gln Ser Thr Gln Lys Leu Glu Xaa Leu Phe Ala
 195 200 205
 Met Val Glu Ile Trp Gln
 210 214

<210> 2013

<211> 124

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(124)

<223> Xaa = any amino acid or nothing

<400> 2013

Val Arg Asn Ser Xaa Ser Phe Ala His Cys Ala Ser Val Tyr Lys His
 1 5 10 15
 His Tyr Met Asp Gly Gln Thr Pro Cys Leu Phe Val Ser Ser Lys Ala
 20 25 30
 Asp Leu Pro Glu Gly Val Ala Val Ser Gly Pro Ser Pro Ala Glu Phe
 35 40 45
 Cys Arg Lys His Arg Leu Pro Ala Pro Val Pro Phe Ser Cys Ala Gly
 50 55 60
 Pro Ala Glu Pro Ser Thr Thr Ile Phe Thr Gln Leu Ala Thr Met Ala
 65 70 75 80
 Ala Phe Pro His Leu Val His Ala Glu Leu His Pro Ser Ser Phe Trp
 85 90 95
 Leu Arg Gly Leu Leu Gly Val Val Gly Ala Ala Val Ala Val Leu
 100 105 110
 Ser Phe Ser Leu Tyr Arg Val Leu Val Lys Ser Gln
 115 120 124

<210> 2014

<211> 183

<212> PRT

<213> Homo sapiens

<400> 2014

```

Leu Ser Phe Ile Glu Val Leu Ser Met Glu Gln Val Asn Lys Thr Val
 1           5           10           15
Val Arg Glu Phe Val Val Leu Gly Phe Ser Ser Leu Ala Arg Leu Gln
          20           25           30
Gln Leu Leu Phe Val Ile Phe Leu Leu Leu Tyr Leu Phe Thr Leu Gly
          35           40           45
Thr Asn Ala Ile Ile Ile Ser Thr Ile Val Leu Asp Arg Ala Leu His
          50           55           60
Thr Pro Met Tyr Phe Phe Leu Ala Ile Leu Ser Cys Ser Glu Ile Cys
          65           70           75           80
Tyr Thr Phe Val Ile Val Pro Lys Met Leu Val Asp Leu Leu Ser Gln
          85           90           95
Lys Lys Thr Ile Ser Phe Leu Gly Cys Ala Ile Gln Met Phe Ser Phe
          100          105          110
Leu Phe Phe Gly Ser Ser His Ser Phe Leu Leu Ala Ala Met Gly Tyr
          115          120          125
Asp Arg Tyr Met Ala Ile Cys Asn Pro Leu Arg Tyr Ser Val Leu Met
          130          135          140
Gly His Gly Val Cys Met Gly Leu Met Ala Ala Ala Trp Ala Cys Gly
          145          150          155          160
Phe Thr Val Ser Leu Val Thr Thr Ser Leu Val Phe His Leu Pro Phe
          165          170          175
His Ser Ser Asn Gln His Glu
          180          183

```

<210> 2015

<211> 240

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1) ... (240)

<223> Xaa = any amino acid or nothing

<400> 2015

```

Gln Gln Tyr His Asn Thr Gly Ser Ala Gly His His Ala His Cys Gln
 1           5           10           15
Val Gly His Ser Pro His Val His Tyr Pro Ser Gly Cys Gly Pro Leu
          20           25           30
Xaa Ile Gln Arg Gly Leu Pro Ser Phe Asn Ser Leu Glu Gly His Ser
          35           40           45
Leu Lys Asp Ser Gly His Glu Glu Ser Val Gln Leu Asp Ser Glu His
          50           55           60
Asp Val Gln Arg Ser Leu Tyr Cys Asp Thr Ala Val Asn Asp Val Leu
          65           70           75           80
Asn Thr Ser Val Thr Ser Met Gly Ser Gln Met Pro Asp His Asp Gln
          85           90           95
Asn Glu Gly Phe His Cys Arg Glu Glu Cys Arg Ile Leu Gly His Ser
          100          105          110
Asp Arg Cys Trp Met Pro Arg Asn Pro Met Pro Ile Arg Ser Lys Ser
          115          120          125
Pro Glu His Val Arg Asn Ile Ile Ala Leu Ser Ile Glu Ala Thr Ala
          130          135          140
Ala Asp Val Glu Ala Tyr Asp Asp Cys Gly Pro Thr Lys Arg Thr Phe
          145          150          155          160
Ala Thr Phe Gly Lys Asp Val Ser Asp His Pro Ala Glu Glu Arg Pro
          165          170          175
Thr Leu Lys Gly Lys Arg Thr Val Asp Val Thr Ile Cys Ser Pro Lys
          180          185          190
Val Asn Ser Val Ile Arg Glu Ala Gly Asn Gly Cys Glu Ala Ile Ser
          195          200          205

```

```

Pro Val Thr Ser Pro Leu His Leu Lys Ser Ser Leu Pro Thr Lys Pro
  210          215          220
Ser Val Ser Tyr Glu Ile Val Asp Pro Gly Ile Thr Ala Arg Arg Cys
225          230          235          240

```

```

<210> 2016
<211> 53
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(53)
<223> Xaa = any amino acid or nothing

```

```

<400> 2016
Ile Met Leu Leu Ser Thr Ser Ser Xaa Val Tyr Phe Gln Ser Ser Thr
  1          5          10          15
Lys Asp Ser His Phe Phe Leu Phe Asp Phe Gln Lys Thr Gly Pro Pro
          20          25          30
Leu Val Gly Pro Lys Ala Gln Leu Ser Gly Leu Gln Leu Gln Pro Cys
          35          40          45
Leu Tyr Lys Arg Arg
  50          53

```

```

<210> 2017
<211> 39
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(39)
<223> Xaa = any amino acid or nothing

```

```

<400> 2017
Asp Leu Thr Asn Ser His Phe Phe Leu Phe Asp Phe Gln Lys Thr Gly
  1          5          10          15
Pro Pro Leu Gly Gly Pro Lys Ala Gln Phe Ser Ser Leu Gln Leu Gln
          20          25          30
Pro Cys Val Tyr Xaa Arg Arg
          35          39

```

```

<210> 2018
<211> 206
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(206)
<223> Xaa = any amino acid or nothing

```

```

<400> 2018
Asn Ile Lys Ser Asn Asp Arg Trp Val Gln Ile Lys Thr Ala Tyr Lys
  1          5          10          15

```

```

Tyr Phe Phe Xaa Lys Asn Gly Asp Asn Tyr Asn Trp Val Phe Arg Ala
      20      25      30
Leu Pro Thr Thr Phe Ala Asp Ile Glu Asn Leu Lys Tyr Leu Leu Phe
      35      40      45
Thr Arg Asp Ala Ser Gln Pro Phe Tyr Leu Gly His Thr Val Ile Phe
      50      55      60
Gly Asp Leu Glu Tyr Val Thr Val Glu Gly Gly Ile Val Leu Ser Arg
      65      70      75      80
Glu Leu Met Lys Arg Leu Asn Arg Leu Leu Asp Asn Ser Glu Thr Cys
      85      90      95
Ala Asp Gln Ser Val Ile Trp Lys Leu Ser Glu Asp Lys Gln Leu Ala
      100      105      110
Ile Cys Leu Lys Tyr Ala Gly Val His Ala Glu Asn Ala Glu Asp Tyr
      115      120      125
Glu Gly Arg Asp Val Phe Asn Thr Lys Pro Ile Ala Gln Leu Ile Glu
      130      135      140
Glu Ala Leu Ser Asn Asn Pro Gln Gln Val Val Glu Gly Cys Cys Ser
      145      150      155      160
Asp Met Ala Ile Thr Phe Asn Gly Leu Thr Pro Gln Lys Met Glu Val
      165      170      175
Met Met Tyr Gly Leu Tyr Arg Leu Arg Ala Phe Gly His Tyr Phe Asn
      180      185      190
Asp Thr Leu Val Phe Leu Pro Pro Val Gly Ser Glu Asn Asp
      195      200      205 206

```

```

<210> 2019
<211> 109
<212> PRT
<213> Homo sapiens

```

```

<221> misc_feature
<222> (1)...(109)
<223> Xaa = any amino acid or nothing

```

```

<400> 2019
Pro Gly Arg Pro Thr Arg Pro Pro Leu Leu Thr Leu Leu Ala His Val
  1      5      10      15
Ser Pro Glu Pro Ala Gly Pro Ser Cys Asp Ser Leu Ala Gln Pro Gly
      20      25      30
Ala Ser Gly Val Xaa Val Gln His Asp Ser His Pro Pro Leu Leu Cys
      35      40      45
Gly Ser Gln Cys Leu Ser Glu Pro Val Pro Gly Ser His Gly Pro Pro
      50      55      60
Arg Gly Cys Gln His Glu Ala Ala Pro Cys Pro Arg Gly Pro Gly Ser
      65      70      75      80
Asp Gly Leu His His Ala Ser Ala Ala Cys Ala Ser Leu Pro Pro Ser
      85      90      95
Pro Ile Leu Pro Val Leu Leu Pro Glu Leu Gly Pro Leu
      100      105      109

```

```

<210> 2020
<211> 181
<212> PRT
<213> Homo sapiens

```

```

<221> misc_feature
<222> (1)...(181)
<223> Xaa = any amino acid or nothing

```



```

<400> 2020
Asp Ala Trp Gly Asn Arg Cys Ala Val Gly Ala Ala Pro Arg Leu Ile
 1           5           10           15
His Leu His Leu Cys Cys Thr Pro Ala Asp Pro Ser Arg Lys Pro Asp
      20           25           30
Glu Leu Xaa Asn Met Asn Gly Arg Val Asp Tyr Leu Val Thr Glu Glu
      35           40           45
Glu Ile Asn Leu Thr Arg Gly Pro Ser Gly Leu Gly Phe Asn Ile Val
      50           55           60
Gly Gly Thr Asp Gln Gln Tyr Val Ser Asn Asp Ser Gly Ile Tyr Val
      65           70           75           80
Ser Arg Ile Lys Glu Asn Gly Ala Ala Ala Leu Asp Gly Arg Leu Gln
      85           90           95
Glu Gly Asp Lys Ile Leu Ser Val Asn Gly Gln Asp Leu Lys Asn Leu
      100          105          110
Leu His Gln Asp Ala Val Asp Leu Phe Arg Asn Ala Gly Tyr Ala Val
      115          120          125
Ser Leu Arg Val Gln His Arg Leu Gln Val Gln Asn Gly Pro Ile Gly
      130          135          140
His Arg Gly Glu Gly Asp Pro Ser Gly Ile Pro Ile Phe Met Val Leu
      145          150          155          160
Val Pro Val Phe Ala Leu Thr Met Val Ala Ala Trp Ala Phe Met Arg
      165          170          175
Tyr Arg Gln Gln Leu
      180 181

```

```

<210> 2021
<211> 91
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(91)
<223> Xaa = any amino acid or nothing

```

```

<400> 2021
Arg Asp Gly Arg Glu Glu Leu Cys Leu Gln Gln Glu Pro Thr Leu Pro
 1           5           10           15
Ser Arg Ile Cys Ser Ser Ala Pro Leu Leu Tyr Phe Leu Phe Ile Cys
      20           25           30
Pro Phe Val Leu Leu Leu Leu Leu Ile Ser Leu Leu Cys Leu Tyr
      35           40           45
Trp Lys Ala Arg Lys Leu Ser Thr Leu Arg Ser Asn Thr Arg Lys Glu
      50           55           60
Lys Ala Leu Trp Val Asp Leu Lys Glu Ala Gly Gly Val Thr Thr Asn
      65           70           75           80
Arg Met Glu Asp Xaa Glu Glu Asp Glu Cys Asn
      85           90 91

```

```

<210> 2022
<211> 80
<212> PRT
<213> Homo sapiens

```

```

<400> 2022
Ile Ile Tyr Phe Ser Tyr Asn Ile Phe Leu Lys Ile Thr Glu Leu Leu
 1           5           10           15

```

```

Asn Asp Val Glu Arg Leu Lys Gln Ala Leu Asn Gly Leu Ser Gln Leu
      20      25      30
Thr Tyr Thr Ser Gly Asn Pro Thr Lys Arg Gln Ser Gln Leu Ile Asp
      35      40      45
Thr Leu Gln His Gln Val Lys Ser Leu Glu Gln Gln Leu Ala Val Ser
      50      55      60
Asn Gln Ala His Gly Ala Leu Gln Glu Tyr Val Leu Ala Pro Cys Ser
      65      70      75      80

```

```

<210> 2023
<211> 42
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(42)
<223> Xaa = any amino acid or nothing

```

```

<400> 2023
Arg Glu Ile Leu Cys Ser Arg Ile Gly Arg Leu Asn Ile Val Xaa Met
  1      5      10      15
Ser Leu Phe Pro Asn Leu Thr Cys Arg Leu Asn Ala Ile Pro Ile Lys
      20      25      30
Ile Pro Ala Asn His Phe Val Glu Val Thr
      35      40      42

```

```

<210> 2024
<211> 983
<212> PRT
<213> Homo sapiens

```

```

<400> 2024
Leu Thr Glu Asp Gln Pro Phe Asp Ile Leu Gln Lys Ser Leu Gln Glu
  1      5      10      15
Ala Asn Ile Thr Glu Gln Thr Leu Ala Glu Glu Ala Tyr Leu Asp Ala
      20      25      30
Ser Ile Gly Ser Ser Gln Gln Phe Ala Gln Ala Gln Leu His Pro Ser
      35      40      45
Ser Ser Ala Ser Phe Thr Gln Ala Ser Asn Val Ser Asn Tyr Ser Gly
      50      55      60
Gln Thr Leu Gln Pro Ile Gly Val Thr His Val Pro Val Gly Ala Ser
      65      70      75      80
Phe Ala Ser Asn Thr Val Gly Val Gln His Gly Phe Met Gln His Val
      85      90      95
Gly Ile Ser Val Pro Ser Gln His Leu Ser Asn Ser Ser Gln Ile Ser
      100      105      110
Gly Ser Gly Gln Ile Gln Leu Ile Gly Ser Phe Gly Asn His Pro Ser
      115      120      125
Met Met Thr Ile Asn Asn Leu Asp Gly Ser Gln Ile Ile Leu Lys Gly
      130      135      140
Ser Gly Gln Gln Ala Pro Ser Asn Val Ser Gly Gly Leu Leu Val His
      145      150      155      160
Arg Gln Thr Pro Asn Gly Asn Ser Leu Phe Gly Asn Ser Ser Ser Ser
      165      170      175
Pro Val Ala Gln Pro Val Thr Val Pro Phe Asn Ser Thr Asn Phe Gln
      180      185      190

```

Thr Ser Leu Pro Val His Asn Ile Ile Ile Gln Arg Gly Leu Ala Pro
 195 200 205
 Asn Ser Asn Lys Val Pro Ile Asn Ile Gln Pro Lys Pro Ile Gln Met
 210 215 220
 Gly Gln Gln Asn Thr Tyr Asn Val Asn Asn Leu Gly Ile Gln Gln His
 225 230 235 240
 His Val Gln Gln Gly Ile Ser Phe Ala Ser Ala Ser Ser Pro Gln Gly
 245 250 255
 Ser Val Val Gly Pro His Met Ser Val Asn Ile Val Asn Gln Gln Asn
 260 265 270
 Thr Arg Lys Pro Val Thr Ser Gln Ala Val Ser Ser Thr Gly Gly Ser
 275 280 285
 Ile Val Ile His Ser Pro Met Gly Gln Pro His Ala Pro Gln Ser Gln
 290 295 300
 Phe Leu Ile Pro Thr Ser Leu Ser Val Ser Ser Asn Ser Val His His
 305 310 315 320
 Val Gln Thr Ile Asn Gly Gln Leu Leu Gln Thr Gln Pro Ser Gln Leu
 325 330 335
 Ile Ser Gly Gln Val Ala Ser Glu His Val Met Leu Asn Arg Asn Ser
 340 345 350
 Ser Asn Met Leu Arg Thr Asn Gln Pro Tyr Thr Gly Pro Met Leu Asn
 355 360 365
 Asn Gln Asn Thr Ala Val His Leu Val Ser Gly Gln Thr Phe Ala Ala
 370 375 380
 Ser Gly Ser Pro Val Ile Ala Asn His Ala Ser Pro Gln Leu Val Gly
 385 390 395 400
 Gly Gln Met Pro Leu Gln Gln Ala Ser Pro Thr Val Leu His Leu Ser
 405 410 415
 Pro Gly Gln Ser Ser Val Ser Gln Gly Arg Pro Gly Phe Ala Thr Met
 420 425 430
 Pro Ser Val Thr Ser Met Ser Gly Pro Ser Arg Phe Pro Ala Val Ser
 435 440 445
 Ser Ala Ser Thr Ala His Pro Ser Leu Gly Ser Ala Val Gln Ser Gly
 450 455 460
 Ser Ser Gly Ser Asn Phe Thr Gly Asp Gln Leu Thr Gln Pro Asn Arg
 465 470 475 480
 Thr Pro Val Pro Val Ser Val Ser His Arg Leu Pro Val Ser Ser Ser
 485 490 495
 Lys Ser Thr Ser Thr Phe Ser Asn Thr Pro Gly Thr Gly Thr Gln Gln
 500 505 510
 Gln Phe Phe Cys Gln Ala Gln Lys Lys Cys Leu Asn Gln Thr Ser Pro
 515 520 525
 Ile Ser Ala Pro Lys Thr Thr Asp Gly Leu Arg Gln Ala Gln Ile Pro
 530 535 540
 Gly Leu Leu Ser Thr Thr Leu Pro Gly Gln Asp Ser Gly Ser Lys Val
 545 550 555 560
 Ile Ser Ala Ser Leu Gly Thr Ala Gln Pro Gln Gln Glu Lys Val Val
 565 570 575
 Gly Ser Ser Pro Gly His Pro Ala Val Gln Val Glu Ser His Ser Gly
 580 585 590
 Gly Gln Lys Arg Pro Ala Ala Lys Gln Leu Thr Lys Gly Ala Phe Ile
 595 600 605
 Leu Gln Gln Leu Gln Arg Asp Gln Ala His Thr Val Thr Pro Asp Lys
 610 615 620
 Ser His Phe Arg Ser Leu Ser Asp Ala Val Gln Arg Leu Leu Ser Tyr
 625 630 635 640
 His Val Cys Gln Gly Ser Met Pro Thr Glu Glu Asp Leu Arg Lys Val
 645 650 655
 Asp Asn Glu Phe Glu Thr Val Ala Thr Gln Leu Leu Lys Arg Thr Gln
 660 665 670
 Ala Met Leu Asn Lys Tyr Arg Cys Leu Leu Leu Glu Asp Ala Met Arg
 675 680 685
 Ile Asn Pro Pro Ala Glu Met Val Met Ile Asp Arg Met Phe Asn Gln
 690 695 700

Glu Glu Arg Ala Ser Leu Ser Arg Asp Lys Arg Leu Ala Leu Val Asp
 705 710 715 720
 Pro Glu Gly Phe Gln Ala Asp Phe Cys Cys Ser Phe Lys Leu Asp Lys
 725 730 735
 Ala Ala His Glu Thr Gln Phe Gly Arg Ser Asp Gln His Gly Ser Lys
 740 745 750
 Ala Ser Ser Ser Leu Gln Pro Pro Ala Lys Ala Gln Gly Arg Asp Arg
 755 760 765
 Ala Lys Thr Gly Val Thr Glu Pro Met Asn His Asp Gln Phe His Leu
 770 775 780
 Val Pro Asn His Ile Val Val Ser Ala Glu Gly Asn Ile Ser Lys Lys
 785 790 795 800
 Thr Glu Cys Leu Gly Arg Ala Leu Lys Phe Asp Lys Val Gly Leu Val
 805 810 815
 Gln Tyr Gln Ser Thr Ser Glu Glu Lys Ala Ser Arg Arg Glu Pro Leu
 820 825 830
 Lys Ala Ser Gln Cys Ser Pro Gly Pro Glu Gly His Arg Lys Thr Ser
 835 840 845
 Ser Arg Ser Asp His Gly Thr Glu Ser Lys Leu Ser Ser Ile Leu Ala
 850 855 860
 Asp Ser His Leu Glu Met Thr Cys Asn Asn Ser Phe Gln Asp Lys Ser
 865 870 875 880
 Leu Arg Asn Ser Pro Lys Asn Glu Val Leu His Thr Asp Ile Met Lys
 885 890 895
 Gly Ser Gly Glu Pro Gln Pro Asp Leu Gln Leu Thr Lys Ser Leu Glu
 900 905 910
 Thr Thr Phe Lys Asn Ile Leu Glu Leu Lys Lys Ala Gly Arg Gln Pro
 915 920 925
 Gln Ser Asp Pro Thr Val Ser Gly Ser Val Glu Leu Asp Phe Pro Asn
 930 935 940
 Phe Ser Pro Met Ala Ser Gln Glu Asn Cys Leu Glu Lys Phe Ile Pro
 945 950 955 960
 Asp His Ser Glu Gly Val Val Glu Thr Asp Ser Ile Leu Glu Ala Ala
 965 970 975
 Val Asn Ser Ile Leu Glu Cys
 980 983

<210> 2025
 <211> 427
 <212> PRT
 <213> Homo sapiens

<400> 2025
 Leu Lys Lys Met Glu Pro Phe Ser Cys Asp Thr Phe Val Ala Leu Pro
 1 5 10 15
 Pro Ala Thr Val Asp Asn Arg Ile Ile Phe Gly Lys Asn Ser Asp Arg
 20 25 30
 Leu Tyr Asp Glu Val Gln Glu Val Val Tyr Phe Pro Ala Val Val His
 35 40 45
 Asp Asn Leu Gly Glu Arg Leu Lys Cys Thr Tyr Ile Glu Ile Asp Gln
 50 55 60
 Val Pro Glu Thr Tyr Ala Val Val Leu Ser Arg Pro Ala Trp Leu Trp
 65 70 75 80
 Gly Ala Glu Met Gly Ala Asn Glu His Gly Val Cys Ile Gly Asn Glu
 85 90 95
 Ala Val Trp Gly Arg Glu Glu Val Cys Asp Glu Glu Ala Leu Leu Gly
 100 105 110
 Met Asp Leu Val Arg Leu Gly Leu Glu Arg Ala Asp Thr Ala Glu Lys
 115 120 125
 Ala Leu Asn Val Ile Val Asp Leu Leu Glu Lys Tyr Gly Gln Gly Gly
 130 135 140

```

Asn Cys Thr Glu Gly Arg Met Val Phe Ser Tyr His Asn Ser Phe Leu
145          150          155          160
Ile Ala Asp Arg Asn Glu Ala Trp Ile Leu Glu Thr Ala Gly Lys Tyr
          165          170          175
Trp Ala Ala Glu Lys Val Gln Glu Gly Val Arg Asn Ile Ser Asn Gln
          180          185          190
Leu Ser Ile Thr Thr Lys Ile Ala Arg Glu His Pro Asp Met Arg Asn
          195          200          205
Tyr Ala Lys Arg Lys Gly Trp Trp Asp Gly Lys Lys Glu Phe Asp Phe
          210          215          220
Ala Ala Ala Tyr Ser Tyr Leu Asp Thr Ala Lys Met Met Thr Ser Ser
          225          230          235          240
Gly Arg Tyr Cys Glu Gly Tyr Lys Leu Leu Asn Lys His Lys Gly Asn
          245          250          255
Ile Thr Phe Glu Thr Met Met Glu Ile Leu Arg Asp Lys Pro Ser Gly
          260          265          270
Ile Asn Met Glu Gly Glu Phe Leu Thr Thr Ala Ser Met Val Phe Ile
          275          280          285
Leu Pro Gln Asp Ser Ser Leu Pro Cys Ile His Phe Phe Thr Gly Thr
          290          295          300
Pro Asp Pro Glu Arg Ser Val Phe Lys Pro Phe Ile Phe Val Pro His
          305          310          315          320
Ile Ser Gln Leu Leu Asp Thr Ser Ser Pro Thr Phe Glu Leu Glu Asp
          325          330          335
Leu Val Lys Lys Lys Ser His Phe Lys Pro Asp Arg Arg His Pro Leu
          340          345          350
Tyr Gln Lys His Gln Gln Ala Leu Glu Val Val Asn Asn Asn Glu Glu
          355          360          365
Lys Ala Lys Ile Met Leu Asp Asn Met Arg Lys Leu Glu Lys Glu Leu
          370          375          380
Phe Arg Glu Met Glu Ser Ile Leu Gln Asn Lys His Leu Asp Val Glu
          385          390          395          400
Lys Ile Val Asn Leu Phe Pro Gln Cys Thr Lys Asp Glu Ile Gln Ile
          405          410          415
Tyr Gln Ser Asn Leu Ser Val Lys Val Ser Ser
          420          425          427

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<210> 2026

<211> 101

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(101)

<223> Xaa = any amino acid or nothing

<400> 2026

```

Phe Phe Phe Leu Arg Arg Ser Leu Ala Leu Ser Pro Arg Pro Asp Cys
1          5          10          15
Gly Leu Gln Trp Arg Asn Leu Gly Ser Leu Gln Ala Pro Pro Pro Gly
          20          25          30
Phe Thr Pro Phe Ser Cys Leu Ser Leu Pro Ser Ser Trp Asp Tyr Arg
          35          40          45
Arg Pro Pro Pro Arg Pro Ala Asn Phe Leu Tyr Phe Xaa Xaa Arg Arg
          50          55          60
Gly Phe Thr Leu Leu Ala Arg Met Val Ser Ile Ser Xaa Pro His Asp
          65          70          75          80
Pro Pro Ala Ser Ala Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His
          85          90          95
Arg Ala Arg Pro Thr
          100 101

```

<210> 2027
 <211> 214
 <212> PRT
 <213> Homo sapiens

<400> 2027
 Phe Phe His Ser Val Asp Leu Leu Ala Leu Glu Gln Ser Lys Thr Phe
 1 5 10 15
 Tyr Lys Pro Asp Trp Phe Asp Ile Val Glu Ser Glu Val Lys Cys Cys
 20 25 30
 Lys Glu Ala Val Cys Val Ile Asp Met Ser Ser Phe Thr Glu Phe Glu
 35 40 45
 Ile Thr Ser Thr Gly Asp Gln Ala Leu Glu Val Leu Gln Tyr Leu Phe
 50 55 60
 Ser Asn Asp Leu Asp Val Pro Val Gly His Ile Val His Thr Gly Met
 65 70 75 80
 Leu Asn Glu Gly Gly Gly Tyr Glu Asn Asp Cys Ser Ile Ala Arg Leu
 85 90 95
 Asn Lys Arg Ser Phe Phe Met Ile Ser Pro Thr Asp Gln Gln Val His
 100 105 110
 Cys Trp Ala Trp Leu Lys Lys His Met Pro Lys Asp Ser Asn Leu Leu
 115 120 125
 Leu Glu Asp Val Thr Trp Lys Tyr Thr Ala Leu Asn Leu Ile Gly Pro
 130 135 140
 Arg Ala Val Asp Val Leu Ser Glu Leu Ser Tyr Ala Pro Met Thr Pro
 145 150 155 160
 Asp His Phe Pro Ser Leu Phe Cys Lys Glu Met Ser Val Gly Tyr Ala
 165 170 175
 Asn Gly Ile Arg Val Met Ser Met Thr His Thr Gly Glu Pro Gly Phe
 180 185 190
 Met Leu Tyr Ile Pro Ile Glu Tyr Arg Trp Gly Phe Thr Met Leu Ser
 195 200 205
 Thr Leu Val Ser Asn Ser
 210 214

<210> 2028
 <211> 114
 <212> PRT
 <213> Homo sapiens

<221> misc_feature
 <222> (1)...(114)
 <223> Xaa = any amino acid or nothing

<400> 2028
 Pro Ala Leu Cys Arg Leu Arg Asp Asp Met Thr Val Cys Val Ala Asp
 1 5 10 15
 Phe Gly Leu Ser Lys Lys Ile Tyr Ser Gly Asp Tyr Tyr Arg Gln Gly
 20 25 30
 Arg Ile Ala Lys Met Pro Val Lys Trp Ile Ala Ile Glu Ser Leu Ala
 35 40 45
 Asp Arg Val Tyr Thr Ser Lys Ser Asp Val Trp Ala Phe Gly Val Thr
 50 55 60
 Met Trp Glu Ile Ala Thr Arg Gly Met Thr Pro Tyr Pro Gly Val Gln
 65 70 75 80
 Asn His Glu Met Tyr Asp Tyr Leu Leu His Gly His Arg Leu Lys Gln
 85 90 95

Pro Glu Asp Cys Leu Asp Glu Leu Cys Lys Ile Xaa Xaa Ser Pro Gln
 100 105 110
 Ser Pro
 114

<210> 2029
 <211> 153
 <212> PRT
 <213> Homo sapiens

<400> 2029
 Arg Glu Ser Gln Val Lys His Phe Lys Met Arg Lys Ile Asp Leu Cys
 1 5 10 15
 Leu Ser Ser Glu Gly Ser Glu Val Ile Leu Ala Thr Ser Ser Asp Glu
 20 25 30
 Lys His Pro Pro Glu Asn Ile Ile Asp Gly Asn Pro Glu Thr Phe Trp
 35 40 45
 Thr Thr Thr Gly Met Phe Pro Gln Glu Phe Ile Ile Cys Phe His Lys
 50 55 60
 His Val Arg Ile Glu Arg Leu Val Ile Gln Ser Tyr Phe Val Gln Thr
 65 70 75 80
 Leu Lys Ile Glu Lys Ser Thr Ser Lys Glu Pro Val Asp Phe Glu Gln
 85 90 95
 Trp Ile Glu Lys Asp Leu Val His Thr Glu Gly Gln Leu Gln Asn Glu
 100 105 110
 Glu Ile Val Ala His Asp Gly Ser Ala Thr Tyr Leu Arg Phe Ile Ile
 115 120 125
 Val Ser Ala Phe Asp His Phe Ala Ser Val His Ser Val Ser Ala Glu
 130 135 140
 Gly Thr Val Val Ser Asn Leu Ser Ser
 145 150 153

<210> 2030
 <211> 149
 <212> PRT
 <213> Homo sapiens

<400> 2030
 Glu Ile Leu Ala Val Leu Lys Leu Ala Cys Gly Asp Ile Ser Leu Asn
 1 5 10 15
 Ala Leu Ala Leu Met Val Ala Thr Ala Val Leu Thr Leu Ala Pro Leu
 20 25 30
 Leu Leu Ile Cys Leu Ser Tyr Leu Phe Ile Leu Ser Ala Ile Leu Arg
 35 40 45
 Val Pro Ser Ala Ala Gly Arg Cys Lys Ala Phe Ser Thr Cys Ser Ala
 50 55 60
 His Arg Thr Val Val Val Val Phe Tyr Gly Thr Ile Ser Phe Met Tyr
 65 70 75 80
 Phe Lys Pro Lys Ala Lys Asp Pro Asn Val Asp Lys Thr Val Ala Leu
 85 90 95
 Phe Tyr Gly Val Thr Pro Ser Leu Asn Pro Ile Ile Tyr Ser Leu
 100 105 110
 Arg Asn Ala Glu Val Lys Ala Ala Val Leu Thr Leu Leu Arg Gly Gly
 115 120 125
 Leu Leu Ser Arg Lys Ala Ser His Cys Tyr Cys Cys Pro Leu Pro Leu
 130 135 140
 Ser Ala Gly Ile Gly
 145 149

<210> 2031
 <211> 79
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(79)
 <223> Xaa = any amino acid or nothing

<400> 2031
 Val Pro Asp Asn Gly Asp Val Thr Lys Leu Pro Val Cys Ser Thr Leu
 1 5 10 15
 Val Glu Glu Thr Ser Leu Thr Val Ser Glu Ala Met Glu Gln Ser Ile
 20 25 30
 Lys Asn Glu Ser Pro Leu Pro Gly Thr Leu Ala His Thr Cys Asn Thr
 35 40 45
 Ser Thr Leu Gly Gly Arg Gly Arg Trp Ile Thr Xaa Gly Arg Glu Phe
 50 55 60
 Asp Thr Ser Met Ala Asn Met Val Lys Pro Cys Leu Tyr Arg Lys
 65 70 75 79

<210> 2032
 <211> 76
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(76)
 <223> Xaa = any amino acid or nothing

<400> 2032
 Phe Phe Phe Glu Thr Glu Ser Tyr Ser Ile Thr Gln Ala Gly Val Gln
 1 5 10 15
 Trp Pro Asn Leu Ser Ser Leu Lys Thr Leu Pro Pro Gly Phe Lys Xaa
 20 25 30
 Phe Ser Cys Leu Ser Leu Pro Ser Trp Asp Tyr Arg Cys Leu Pro
 35 40 45
 Pro Cys Pro Ala Asn Phe Cys Ile Phe Ser Arg Asn Gly Val Leu Pro
 50 55 60
 Cys Trp Pro Gly Trp Ser Arg Thr Pro Asp Leu Ser
 65 70 75 76

<210> 2033
 <211> 106
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(106)
 <223> Xaa = any amino acid or nothing

<400> 2033
 Cys Pro Ser Val Ser Gly Leu Ile Lys Ser Asp Leu Arg Arg His Asn
 1 5 10 15


```

Ile Asn Ile Gly Ile Thr Asn Val Asp Val Lys Ala Val Ser Asn Ile
      20      25      30
Phe Met Ile Ile Leu Leu Arg Ser Met Tyr Arg Ile Asn Val Lys Pro
      35      40      45
Tyr Phe Phe Ile Xaa Leu Phe Phe Ser Arg Val Asn Cys Xaa Ser Val
      50      55      60
Ile Ile Gly Tyr Ala Arg Cys Tyr Thr Phe Leu Ile Phe Xaa Leu Phe
      65      70      75      80
Leu Xaa Ile Pro Ala Asp Ser Pro Thr Asp Gln Glu Pro Lys Thr Val
      85      90      95
Met Leu Ser Lys Gln Ser Glu Ser Ala Ile
      100      105 106

```

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<210> 2034
<211> 64
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(64)
<223> Xaa = any amino acid or nothing

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```

<400> 2034
Asn Leu Met Lys Glu Met Gln Asn Leu Asn Ser Glu Asn His Lys Thr
 1      5      10      15
Trp Glu Glu Tyr Lys Asp Thr Lys Xaa Ile Met Ser Tyr Phe Tyr Gly
      20      25      30
Xaa Ala Leu Asn Val Ile Lys Met Ala Val Leu Pro Lys Leu Met Tyr
      35      40      45
Arg Phe Ser Ala Thr Leu Val Lys Ile Pro Gln His Leu Thr Asp Ser
 50      55      60      64

```

```

<210> 2035
<211> 60
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(60)
<223> Xaa = any amino acid or nothing

```

```

<400> 2035
Leu His Ser Gln Asp Gly Asn Ser Asp Pro Arg Lys Pro Gln Gly Glu
 1      5      10      15
Met Ser Ala His Ala Phe Pro Val Gln Thr Cys Gly Glu Glu Asp Gln
      20      25      30
Lys Lys Thr Pro Gln Val Pro Ile Asn Phe Thr Glu Leu Ser Lys Cys
      35      40      45
Ser Xaa Ser Xaa Lys Ile Met Ser Gly Glu Arg Glu
 50      55      60

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<210> 2036
<211> 143
<212> PRT

```

<213> Homo sapiens

<400> 2036

Gly	Gly	Glu	Ala	Ala	Ala	Arg	Ala	Ala	Lys	Leu	Ser	Ser	Pro	Arg	Pro
1				5					10					15	
His	Arg	Val	Gly	Arg	Arg	Glu	Arg	Gly	Val	Gly	Gly	Met	Ser	Ala	Phe
			20					25					30		
Ser	Glu	Ala	Ala	Leu	Glu	Lys	Lys	Leu	Ser	Glu	Leu	Ser	Asn	Ser	Gln
		35					40					45			
Gln	Ser	Val	Gln	Thr	Leu	Ser	Leu	Trp	Leu	Ile	His	His	Arg	Lys	His
	50					55					60				
Ser	Arg	Pro	Ile	Val	Thr	Val	Trp	Glu	Arg	Glu	Leu	Arg	Lys	Ala	Lys
	65				70					75					80
Pro	Asn	Arg	Lys	Leu	Thr	Phe	Leu	Tyr	Leu	Ala	Asn	Asp	Val	Ile	Gln
				85					90					95	
Asn	Ser	Lys	Arg	Lys	Gly	Pro	Glu	Phe	Thr	Lys	Asp	Phe	Ala	Pro	Val
			100					105					110		
Ile	Val	Glu	Ala	Phe	Lys	His	Val	Ser	Ser	Glu	Thr	Asp	Glu	Ser	Cys
		115					120					125			
Lys	Lys	His	Leu	Gly	Arg	Val	Leu	Ser	Ile	Trp	Glu	Glu	Arg	Ser	
	130					135					140			143	

<210> 2037

<211> 142

<212> PRT

<213> Homo sapiens

<400> 2037

Met	Ala	Ala	Val	Val	Ala	Ala	Thr	Ala	Leu	Lys	Gly	Arg	Gly	Ala	Arg
1				5					10					15	
Asn	Ala	Arg	Val	Leu	Arg	Gly	Ile	Leu	Ala	Gly	Ala	Thr	Ala	Asn	Lys
		20						25					30		
Ala	Ser	His	Asn	Arg	Thr	Arg	Ala	Leu	Gln	Ser	His	Ser	Ser	Pro	Glu
		35					40					45			
Gly	Lys	Glu	Glu	Pro	Glu	Pro	Leu	Ser	Pro	Glu	Leu	Glu	Tyr	Ile	Pro
	50					55					60				
Arg	Lys	Arg	Gly	Lys	Asn	Pro	Met	Lys	Ala	Val	Gly	Leu	Ala	Trp	Ala
	65				70					75					80
Ile	Gly	Phe	Pro	Cys	Gly	Ile	Leu	Leu	Phe	Ile	Leu	Thr	Lys	Arg	Glu
				85					90					95	
Val	Asp	Lys	Asp	Arg	Val	Lys	Gln	Met	Lys	Ala	Arg	Gln	Asn	Met	Arg
			100					105					110		
Leu	Ser	Asn	Thr	Gly	Glu	Tyr	Glu	Ser	Gln	Arg	Phe	Arg	Ala	Ser	Ser
		115					120					125			
Gln	Ser	Ala	Pro	Ser	Pro	Asp	Val	Gly	Ser	Gly	Val	Gln	Thr		
	130					135					140		142		

<210> 2038

<211> 469

<212> PRT

<213> Homo sapiens

<400> 2038

Leu	Gln	Gln	Thr	Glu	Asp	Lys	Ser	Leu	Leu	Asn	Gln	Gly	Ser	Ser	Ser
1				5					10					15	
Glu	Glu	Val	Ala	Gly	Ser	Ser	Gln	Lys	Met	Gly	Gln	Pro	Gly	Pro	Ser
			20					25					30		

Gly Asp Ser Asp Leu Ala Thr Ala Leu His Arg Leu Ser Leu Arg Arg
 35 40 45
 Gln Asn Tyr Leu Ser Glu Lys Gln Phe Phe Ala Glu Glu Trp Gln Arg
 50 55 60
 Lys Ile Gln Val Leu Ala Asp Gln Lys Glu Gly Val Ser Gly Cys Val
 65 70 75 80
 Thr Pro Thr Glu Ser Leu Ala Ser Leu Cys Thr Thr Gln Ser Glu Ile
 85 90 95
 Thr Asp Leu Ser Ser Ala Ser Cys Leu Arg Gly Phe Met Pro Glu Lys
 100 105 110
 Leu Gln Ile Val Lys Pro Leu Glu Gly Ser Gln Thr Leu Tyr His Trp
 115 120 125
 Gln Gln Leu Ala Gln Pro Asn Leu Gly Thr Ile Leu Asp Pro Arg Pro
 130 135 140
 Gly Val Ile Thr Lys Gly Phe Thr Gln Leu Pro Gly Asp Ala Ile Tyr
 145 150 155 160
 His Ile Ser Asp Leu Glu Glu Asp Glu Glu Gly Ile Thr Phe Gln
 165 170 175
 Val Gln Gln Pro Leu Glu Val Glu Glu Lys Leu Ser Thr Ser Lys Pro
 180 185 190
 Val Thr Gly Ile Phe Leu Pro Pro Ile Thr Ser Ala Gly Gly Pro Val
 195 200 205
 Thr Val Ala Thr Ala Asn Pro Gly Lys Cys Leu Ser Cys Thr Asn Ser
 210 215 220
 Thr Phe Thr Phe Thr Thr Cys Arg Ile Leu His Pro Ser Asp Ile Thr
 225 230 235 240
 Gln Val Thr Pro Ser Ser Gly Phe Pro Ser Leu Ser Cys Gly Ser Ser
 245 250 255
 Gly Ser Ser Ser Ser Asn Thr Ala Val Asn Ser Pro Ala Leu Ala Tyr
 260 265 270
 Arg Leu Ser Ile Gly Glu Ser Ile Thr Asn Arg Arg Asp Ser Thr Thr
 275 280 285
 Thr Phe Ser Ser Thr Met Ser Leu Ala Lys Leu Leu Gln Glu Arg Gly
 290 295 300
 Ile Ser Ala Lys Val Tyr His Ser Pro Ile Ser Glu Asn Pro Leu Gln
 305 310 315 320
 Pro Leu Pro Lys Ser Leu Ala Ile Pro Ser Thr Pro Pro Asn Ser Pro
 325 330 335
 Ser His Ser Pro Cys Pro Ser Pro Leu Pro Phe Glu Pro Arg Val His
 340 345 350
 Leu Ser Glu Asn Phe Leu Ala Ser Arg Pro Ala Glu Thr Phe Leu Gln
 355 360 365
 Glu Met Tyr Gly Leu Arg Pro Ser Arg Asn Pro Pro Asp Val Gly Gln
 370 375 380
 Leu Lys Met Asn Leu Val Asp Arg Leu Lys Arg Leu Gly Ile Ala Arg
 385 390 395 400
 Val Val Lys Asn Pro Gly Ala Gln Glu Asn Gly Arg Cys Gln Glu Ala
 405 410 415
 Glu Ile Gly Pro Gln Lys Pro Asp Ser Ala Val Tyr Leu Asn Ser Gly
 420 425 430
 Ser Ser Leu Leu Gly Gly Leu Arg Arg Asn Gln Ser Leu Pro Val Ile
 435 440 445
 Met Gly Ser Phe Ala Ala Pro Val Cys Thr Ser Ser Pro Lys Met Gly
 450 455 460
 Val Leu Lys Glu Asp
 465 469

<210> 2039

<211> 873

<212> PRT

<213> Homo sapiens

<400> 2039

Leu	Ser	Leu	Phe	Gly	Ser	Arg	Ala	Leu	Gly	Arg	Ser	Gly	Ala	Arg	Ala
1				5					10					15	
Met	Ala	Lys	Ala	Lys	Lys	Val	Gly	Ala	Arg	Arg	Lys	Ala	Ser	Gly	Ala
			20					25					30		
Pro	Ala	Gly	Ala	Arg	Gly	Gly	Pro	Ala	Lys	Ala	Asn	Ser	Asn	Pro	Phe
		35					40					45			
Glu	Val	Lys	Val	Asn	Arg	Gln	Lys	Phe	Gln	Ile	Leu	Gly	Arg	Lys	Thr
	50				55						60				
Arg	His	Asp	Val	Gly	Leu	Pro	Gly	Val	Ser	Arg	Ala	Arg	Ala	Leu	Arg
65					70					75				80	
Lys	Arg	Thr	Gln	Thr	Leu	Leu	Lys	Glu	Tyr	Lys	Glu	Arg	Asp	Lys	Ser
			85						90					95	
Asn	Val	Phe	Arg	Asp	Lys	Arg	Phe	Gly	Glu	Tyr	Asn	Ser	Asn	Met	Ser
			100					105					110		
Pro	Glu	Glu	Lys	Met	Met	Lys	Arg	Phe	Ala	Leu	Glu	Gln	Gln	Arg	His
		115					120					125			
His	Glu	Lys	Lys	Ser	Ile	Tyr	Asn	Leu	Asn	Glu	Asp	Glu	Glu	Leu	Thr
	130					135					140				
His	Tyr	Gly	Gln	Ser	Leu	Ala	Asp	Ile	Glu	Lys	His	Asn	Asp	Ile	Val
145					150					155				160	
Asp	Ser	Asp	Ser	Asp	Ala	Glu	Asp	Arg	Gly	Thr	Leu	Ser	Gly	Glu	Leu
			165						170					175	
Thr	Ala	Ala	His	Phe	Gly	Gly	Gly	Gly	Gly	Leu	Leu	His	Lys	Lys	Thr
			180				185						190		
Gln	Gln	Glu	Gly	Glu	Glu	Arg	Glu	Lys	Pro	Lys	Ser	Arg	Lys	Glu	Leu
		195					200					205			
Ile	Glu	Glu	Leu	Ile	Ala	Lys	Ser	Lys	Gln	Glu	Lys	Arg	Glu	Arg	Gln
	210					215					220				
Ala	Gln	Arg	Glu	Asp	Ala	Leu	Glu	Leu	Thr	Glu	Lys	Leu	Asp	Gln	Asp
225					230					235				240	
Trp	Lys	Glu	Ile	Gln	Thr	Leu	Leu	Ser	His	Lys	Thr	Pro	Lys	Ser	Glu
			245						250					255	
Asn	Arg	Asp	Lys	Lys	Glu	Lys	Pro	Lys	Pro	Asp	Ala	Tyr	Asp	Met	Met
			260					265					270		
Val	Arg	Glu	Leu	Gly	Phe	Glu	Met	Lys	Ala	Gln	Pro	Ser	Asn	Arg	Met
		275					280					285			
Lys	Thr	Glu	Ala	Glu	Leu	Ala	Lys	Glu	Glu	Gln	Glu	His	Leu	Arg	Lys
		290					295				300				
Leu	Glu	Ala	Glu	Arg	Leu	Arg	Arg	Met	Leu	Gly	Lys	Asp	Glu	Asp	Glu
305					310					315				320	
Asn	Val	Lys	Lys	Pro	Lys	His	Met	Ser	Ala	Asp	Asp	Leu	Asn	Asp	Gly
			325						330					335	
Phe	Val	Leu	Asp	Lys	Asp	Asp	Arg	Arg	Leu	Leu	Ser	Tyr	Lys	Asp	Gly
		340						345					350		
Lys	Met	Asn	Val	Glu	Glu	Asp	Val	Gln	Glu	Glu	Gln	Ser	Lys	Glu	Ala
		355					360					365			
Ser	Asp	Pro	Glu	Ser	Asn	Glu	Glu	Glu	Gly	Asp	Ser	Ser	Gly	Gly	Glu
		370				375					380				
Asp	Thr	Glu	Glu	Ser	Asp	Ser	Pro	Asp	Ser	His	Leu	Asp	Leu	Glu	Ser
385					390					395				400	
Asn	Val	Glu	Ser	Glu	Glu	Glu	Asn	Glu	Lys	Pro	Ala	Lys	Glu	Gln	Arg
			405						410					415	
Gln	Thr	Pro	Gly	Lys	Gly	Leu	Ile	Ser	Gly	Lys	Glu	Arg	Ala	Gly	Lys
		420						425					430		
Ala	Thr	Arg	Asp	Glu	Leu	Pro	Tyr	Thr	Phe	Ala	Ala	Pro	Glu	Ser	Tyr
		435					440					445			
Glu	Glu	Leu	Arg	Ser	Leu	Leu	Leu	Gly	Arg	Ser	Met	Glu	Glu	Gln	Leu
		450				455					460				
Leu	Val	Val	Glu	Arg	Ile	Gln	Lys	Cys	Asn	His	Pro	Ser	Leu	Ala	Glu
465					470					475				480	
Gly	Asn	Lys	Ala	Lys	Leu	Glu	Lys	Leu	Phe	Gly	Phe	Leu	Leu	Glu	Tyr
				485					490					495	

Val Gly Asp Leu Ala Thr Asp Asp Pro Pro Asp Leu Thr Val Ile Asp
 500 505 510
 Lys Leu Val Val His Leu Tyr His Leu Cys Gln Met Phe Pro Glu Ser
 515 520 525
 Ala Ser Asp Ala Ile Lys Phe Val Leu Arg Asp Ala Met His Glu Met
 530 535 540
 Glu Glu Met Ile Glu Thr Lys Gly Arg Ala Ala Leu Pro Gly Leu Asp
 545 550 555 560
 Val Leu Ile Tyr Leu Lys Ile Thr Gly Leu Leu Phe Pro Thr Ser Asp
 565 570 575
 Phe Trp His Pro Val Val Thr Pro Ala Leu Val Cys Leu Ser Gln Leu
 580 585 590
 Leu Thr Lys Cys Pro Ile Leu Ser Leu Gln Asp Val Val Lys Gly Leu
 595 600 605
 Phe Val Cys Cys Leu Phe Leu Glu Tyr Val Ala Leu Ser Gln Arg Phe
 610 615 620
 Ile Pro Glu Leu Ile Asn Phe Leu Leu Gly Ile Leu Tyr Ile Ala Thr
 625 630 635 640
 Pro Asn Lys Ala Ser Gln Gly Ser Thr Leu Val His Pro Phe Arg Ala
 645 650 655
 Leu Gly Lys Asn Ser Glu Leu Leu Val Val Ser Ala Arg Glu Asp Val
 660 665 670
 Ala Thr Trp Gln Gln Ser Ser Leu Ser Leu Arg Trp Ala Ser Arg Leu
 675 680 685
 Arg Ala Pro Thr Ser Thr Glu Ala Asn His Ile Arg Leu Ser Cys Leu
 690 695 700
 Ala Val Gly Leu Ala Leu Leu Lys Arg Cys Val Leu Met Tyr Gly Ser
 705 710 715 720
 Leu Pro Ser Phe His Ala Ile Met Gly Pro Leu Arg Ala Leu Leu Thr
 725 730 735
 Asp His Leu Ala Asp Cys Ser His Pro Gln Glu Leu Gln Glu Leu Cys
 740 745 750
 Gln Ser Thr Leu Thr Glu Met Glu Ser Gln Lys Gln Leu Cys Arg Pro
 755 760 765
 Leu Thr Cys Glu Lys Ser Lys Pro Val Pro Leu Lys Leu Phe Thr Pro
 770 775 780
 Arg Leu Val Lys Val Leu Glu Phe Gly Arg Lys Gln Gly Ser Ser Lys
 785 790 795 800
 Glu Glu Gln Glu Arg Lys Arg Leu Ile His Lys His Lys Arg Glu Phe
 805 810 815
 Lys Gly Ala Val Arg Glu Ile Arg Lys Asp Asn Gln Phe Leu Ala Arg
 820 825 830
 Met Gln Leu Ser Glu Ile Met Glu Arg Asp Ala Glu Arg Lys Arg Lys
 835 840 845
 Val Lys Gln Leu Phe Asn Ser Leu Ala Thr Gln Glu Gly Glu Trp Lys
 850 855 860
 Ala Leu Lys Arg Lys Lys Phe Lys Lys
 865 870 873

<210> 2040

<211> 101

<212> PRT

<213> Homo sapiens

<400> 2040

Phe Phe Phe Phe Val Phe Leu Val Glu Thr Gly Phe His His Val Gly
 1 5 10 15
 Gln Ala Gly Leu Glu Leu Leu Thr Ser Gly Asp Pro Pro Thr Trp Ala
 20 25 30
 Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His Cys Ser Trp Pro Val
 35 40 45

```

Ile Tyr Val Leu Ser Thr Leu Leu His Ala Val Arg Asn Val Leu Phe
   50           55           60
Lys Arg Thr Phe Pro Leu Lys Ser Ser Ser Phe Leu Ser Tyr Asp Lys
   65           70           75           80
Glu Ile Phe Pro Ile Leu Ile Val Leu Lys Phe Tyr Leu Val Thr Leu
           85           90           95
Thr Ser Phe Val Lys
           100 101

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<210> 2041
<211> 51
<212> PRT
<213> Homo sapiens

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```

<400> 2041
Asn Cys His Thr Thr His Cys Thr Ala Asn Trp Val His Leu Pro Gly
   1           5           10           15
Thr Pro Pro Gly Trp Lys Ile Asp Gly Pro Ala Ala Ala Leu Glu Val
           20           25           30
Leu Ser Ser Phe Phe Phe Phe Phe Leu Lys Phe Ser Tyr Lys Pro Gln
           35           40           45
Asn Ile Val
   50  51

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<210> 2042
<211> 404
<212> PRT
<213> Homo sapiens

```

```

<400> 2042
Gly Met Glu Pro Val Gly Cys Cys Gly Glu Cys Arg Gly Ser Ser Val
   1           5           10           15
Asp Pro Arg Ser Thr Phe Val Leu Ser Asn Leu Ala Glu Val Val Glu
           20           25           30
Arg Val Leu Thr Phe Leu Pro Ala Lys Ala Leu Leu Arg Val Ala Cys
           35           40           45
Val Cys Arg Leu Trp Arg Glu Cys Val Arg Arg Val Leu Arg Thr His
           50           55           60
Arg Ser Val Thr Trp Ile Ser Ala Gly Leu Ala Glu Ala Gly His Leu
           65           70           75           80
Glu Gly His Cys Leu Val Arg Val Val Ala Glu Glu Leu Glu Asn Val
           85           90           95
Arg Ile Leu Pro His Thr Val Leu Tyr Met Ala Asp Ser Glu Thr Phe
           100           105           110
Ile Ser Leu Glu Glu Cys Arg Gly His Lys Arg Ala Arg Lys Arg Thr
           115           120           125
Ser Met Glu Thr Ala Leu Ala Leu Glu Lys Leu Phe Pro Lys Gln Cys
           130           135           140
Gln Val Leu Gly Ile Val Thr Pro Gly Ile Val Val Thr Pro Met Gly
           145           150           155           160
Ser Gly Ser Asn Arg Pro Gln Glu Ile Glu Ile Gly Glu Ser Gly Phe
           165           170           175
Ala Leu Leu Phe Pro Gln Ile Glu Gly Ile Lys Ile Gln Pro Phe His
           180           185           190
Phe Ile Lys Asp Pro Lys Asn Leu Thr Leu Glu Arg His Gln Leu Thr
           195           200           205
Glu Val Gly Leu Leu Asp Asn Pro Glu Leu Arg Val Val Leu Val Phe
           210           215           220

```

Gly Tyr Asn Cys Cys Lys Val Gly Ala Ser Asn Tyr Leu Gln Gln Val
 225 230 235 240
 Val Ser Thr Phe Ser Asp Met Asn Ile Ile Leu Ala Gly Gly Gln Val
 245 250 255
 Asp Asn Leu Ser Ser Leu Thr Ser Glu Lys Asn Pro Leu Asp Ile Asp
 260 265 270
 Ala Ser Gly Val Val Gly Leu Ser Phe Ser Gly His Arg Ile Gln Ser
 275 280 285
 Ala Thr Val Leu Leu Asn Glu Asp Val Ser Asp Glu Lys Thr Ala Glu
 290 295 300
 Ala Ala Met Gln Arg Leu Lys Ala Ala Asn Ile Pro Glu His Asn Thr
 305 310 315 320
 Ile Gly Phe Met Phe Ala Cys Val Gly Arg Gly Phe Gln Tyr Tyr Arg
 325 330 335
 Ala Lys Gly Asn Val Glu Ala Asp Ala Phe Arg Lys Phe Phe Pro Ser
 340 345 350
 Val Pro Leu Phe Gly Phe Phe Gly Asn Gly Glu Ile Gly Cys Asp Arg
 355 360 365
 Ile Val Thr Gly Asn Phe Ile Leu Arg Lys Cys Asn Glu Val Lys Asp
 370 375 380
 Asp Asp Leu Phe His Ser Tyr Thr Thr Ile Met Ala Leu Ile His Leu
 385 390 395 400
 Gly Ser Ser Lys
 404

<210> 2043
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 2043
 Glu Glu Ile Lys Glu Arg Phe Gly Pro Gly Leu Val Ile Tyr Trp Tyr
 1 5 10 15
 Gly Phe Ile Gln Glu Leu Asp Cys Asn Arg Glu Arg Gly Ile Leu Leu
 20 25 30
 Lys Ala Cys Phe Pro Thr Asn Ile Val Thr Leu Cys His Ser Ile Ala
 35 40 45 48

<210> 2044
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 2044
 Arg Val Leu Thr Ala Ile Asn His Thr Leu Lys Glu Asn Leu Arg Lys
 1 5 10 15
 Phe Tyr Lys Gly Lys Lys Asp Lys Pro Leu Asp Leu Arg Pro Lys Lys
 20 25 30
 Thr Arg Ala Met Arg Arg Arg Leu Asn Met His Glu Glu Asn Leu Lys
 35 40 45
 Thr Lys Lys Gln His Arg Lys Glu Arg Leu Tyr Pro Leu Arg Lys Tyr
 50 55 60
 Ala Ala Lys Ala
 65 68

<210> 2045
 <211> 490
 <212> PRT
 <213> Homo sapiens

<400> 2045

Glu	Thr	Arg	Ser	Thr	Ala	Val	Lys	Ser	Glu	Val	Gln	Val	Cys	Ile	Ser
1				5					10					15	
Leu	Leu	Leu	Cys	Leu	Glu	Asp	Arg	Thr	Met	Pro	Lys	Lys	Ala	Lys	Pro
			20					25					30		
Thr	Gly	Ser	Gly	Lys	Glu	Glu	Gly	Pro	Ala	Pro	Cys	Lys	Gln	Met	Lys
	35						40					45			
Leu	Glu	Ala	Ala	Gly	Gly	Pro	Ser	Ala	Leu	Asn	Phe	Asp	Ser	Pro	Ser
	50					55					60				
Ser	Leu	Phe	Glu	Ser	Leu	Ile	Ser	Pro	Ile	Lys	Thr	Glu	Thr	Phe	Phe
	65				70					75				80	
Lys	Glu	Phe	Trp	Glu	Gln	Lys	Pro	Leu	Leu	Ile	Gln	Arg	Asp	Asp	Pro
				85				90						95	
Ala	Leu	Ala	Thr	Tyr	Tyr	Gly	Ser	Leu	Phe	Lys	Leu	Thr	Asp	Leu	Lys
			100					105					110		
Ser	Leu	Cys	Ser	Arg	Gly	Met	Tyr	Tyr	Gly	Arg	Asp	Val	Asn	Val	Cys
	115					120						125			
Arg	Cys	Val	Asn	Gly	Lys	Lys	Lys	Val	Leu	Asn	Lys	Asp	Gly	Lys	Ala
	130					135					140				
His	Phe	Leu	Gln	Leu	Arg	Lys	Asp	Phe	Asp	Gln	Lys	Arg	Ala	Thr	Ile
145				150						155				160	
Gln	Phe	His	Gln	Pro	Gln	Arg	Phe	Lys	Asp	Glu	Leu	Trp	Arg	Ile	Gln
				165					170					175	
Glu	Lys	Leu	Glu	Cys	Tyr	Phe	Gly	Ser	Leu	Val	Gly	Ser	Asn	Val	Tyr
		180						185					190		
Ile	Thr	Pro	Ala	Gly	Ser	Gln	Gly	Leu	Pro	Pro	His	Tyr	Asp	Asp	Val
	195					200						205			
Glu	Val	Phe	Ile	Leu	Gln	Leu	Glu	Gly	Glu	Lys	His	Trp	Arg	Leu	Tyr
	210					215					220				
His	Pro	Thr	Val	Pro	Leu	Ala	Arg	Glu	Tyr	Ser	Val	Glu	Ala	Glu	Glu
225					230					235				240	
Arg	Ile	Gly	Arg	Pro	Val	His	Glu	Phe	Met	Leu	Lys	Pro	Gly	Asp	Leu
				245					250					255	
Leu	Tyr	Phe	Pro	Arg	Gly	Thr	Ile	His	Gln	Ala	Asp	Thr	Pro	Ala	Gly
			260					265					270		
Leu	Ala	His	Ser	Thr	His	Val	Thr	Ile	Ser	Thr	Tyr	Gln	Asn	Asn	Ser
	275						280					285			
Trp	Gly	Asp	Phe	Leu	Leu	Asp	Thr	Ile	Ser	Gly	Leu	Val	Phe	Asp	Thr
	290					295					300				
Ala	Lys	Glu	Asp	Val	Glu	Leu	Arg	Thr	Gly	Ile	Pro	Arg	Gln	Leu	Leu
305					310					315				320	
Leu	Gln	Val	Glu	Ser	Thr	Thr	Val	Ala	Thr	Arg	Arg	Leu	Ser	Gly	Phe
				325					330					335	
Leu	Arg	Thr	Leu	Ala	Asp	Arg	Leu	Glu	Gly	Thr	Lys	Glu	Leu	Leu	Ser
			340					345					350		
Ser	Asp	Met	Lys	Lys	Asp	Phe	Ile	Met	His	Arg	Leu	Pro	Pro	Tyr	Ser
	355					360						365			
Ala	Gly	Asp	Gly	Ala	Glu	Leu	Ser	Thr	Pro	Gly	Gly	Lys	Leu	Pro	Arg
	370					375					380				
Leu	Asp	Ser	Val	Val	Arg	Leu	Gln	Phe	Lys	Asp	His	Ile	Val	Leu	Thr
385					390					395				400	
Val	Leu	Pro	Asp	Gln	Asp	Gln	Ser	Asp	Glu	Thr	Gln	Glu	Lys	Met	Val
				405					410					415	
Tyr	Ile	Tyr	His	Ser	Leu	Lys	Asn	Ser	Arg	Glu	Thr	His	Met	Met	Gly
			420					425					430		
Asn	Glu	Glu	Glu	Thr	Glu	Phe	His	Gly	Leu	Arg	Phe	Pro	Leu	Ser	His
	435						440					445			

Leu Asp Ala Leu Lys Gln Ile Trp Asn Ser Pro Ala Ile Ser Val Lys
 450 455 460
 Asp Leu Lys Leu Thr Thr Asp Glu Glu Lys Glu Ser Leu Val Leu Ser
 465 470 475 480
 Leu Trp Thr Glu Cys Leu Ile Gln Val Val
 485 490

<210> 2046
 <211> 245
 <212> PRT
 <213> Homo sapiens
 <221> misc_feature
 <222> (1)...(245)
 <223> Xaa = any amino acid or nothing

<400> 2046
 Leu Met Lys Xaa Tyr Leu Glu Ala Ala Glu Leu Gly Glu Ile Ser Asp
 1 5 10 15
 Ile His Thr Lys Leu Leu Arg Leu Ser Ser Ser Gln Gly Thr Ile Glu
 20 25 30
 Thr Ser Leu Gln Asp Ile Asp Ser Arg Leu Ser Pro Gly Gly Ser Leu
 35 40 45
 Ala Asp Ala Trp Ala His Gln Glu Gly Thr His Pro Lys Asp Arg Asn
 50 55 60
 Val Glu Lys Leu Gln Val Leu Leu Asn Cys Met Thr Glu Ile Tyr Tyr
 65 70 75 80
 Gln Phe Lys Lys Asp Lys Ala Glu Arg Arg Leu Ala Tyr Asn Glu Glu
 85 90 95
 Gln Ile His Lys Phe Asp Lys Gln Lys Leu Tyr Tyr His Ala Thr Lys
 100 105 110
 Ala Met Thr His Phe Thr Asp Glu Cys Val Lys Lys Tyr Glu Ala Phe
 115 120 125
 Leu Asn Lys Ser Glu Glu Trp Ile Arg Lys Met Leu His Leu Arg Lys
 130 135 140
 Gln Leu Leu Ser Leu Thr Asn Gln Cys Phe Asp Ile Glu Glu Glu Val
 145 150 155 160
 Ser Lys Tyr Gln Glu Tyr Thr Asn Glu Leu Gln Glu Thr Leu Pro Gln
 165 170 175
 Lys Met Phe Thr Ala Ser Ser Gly Ile Lys His Thr Met Thr Pro Ile
 180 185 190
 Tyr Pro Ser Ser Asn Thr Leu Val Glu Met Thr Leu Gly Met Lys Lys
 195 200 205
 Leu Lys Glu Glu Met Glu Gly Val Val Lys Glu Leu Ala Glu Asn Asn
 210 215 220
 His Ile Leu Glu Ser Gly Gly Ser Leu Thr Met Asp Gly Gly Leu Arg
 225 230 235 240
 Asn Val Asp Cys Leu
 245

<210> 2047
 <211> 78
 <212> PRT
 <213> Homo sapiens

<400> 2047
 Leu Asp Tyr Asn Phe Phe Leu Phe Glu Met Thr Phe Gly Leu Val Ser
 1 5 10 15

Gln Ala Gly Val Gln Trp His Asp Leu Gly Ser Leu Gln Pro Pro Pro
 20 25 30
 Pro Gly Phe Lys Gln Phe Ser Cys Leu Ser Leu Pro Ser Ser Trp Asp
 35 40 45
 Tyr Arg His Leu Pro Pro His Leu Ala Asn Phe Ser Arg Glu Gly Val
 50 55 60
 Ser Pro Ser Trp Pro Gly Trp Ser Arg Thr Pro Asp Phe Arg
 65 70 75 78

<210> 2048
 <211> 149
 <212> PRT
 <213> Homo sapiens

<400> 2048
 Leu Pro Ile Arg Lys Ser Leu Arg Ser Val Arg Ser Gly Phe Pro Thr
 1 5 10 15
 Ser Gln Ser Pro Ile Thr Arg Asn Leu Asp Gly Thr Ala Ser Gly Ser
 20 25 30
 Cys Leu Ala Lys Thr Val Thr Gly Ser Leu Phe Arg Ile Asn Val Gly
 35 40 45
 Leu Arg Gly Leu Val Ala Gly Gly Ile Ile Gly Ala Leu Leu Gly Thr
 50 55 60
 Pro Val Gly Gly Leu Leu Met Ala Phe Gln Lys Tyr Ser Gly Glu Thr
 65 70 75 80
 Val Gln Glu Arg Lys Gln Lys Asp Arg Lys Ala Leu His Glu Leu Lys
 85 90 95
 Leu Glu Glu Trp Lys Gly Arg Leu Gln Val Thr Glu His Leu Pro Glu
 100 105 110
 Lys Ile Glu Ser Ser Leu Gln Glu Asp Glu Pro Glu Asn Asp Ala Lys
 115 120 125
 Lys Ile Glu Ala Leu Leu Asn Leu Pro Arg Asn Pro Ser Val Ile Asp
 130 135 140
 Lys Gln Asp Lys Asp
 145 149

<210> 2049
 <211> 141
 <212> PRT
 <213> Homo sapiens

<400> 2049
 Arg Pro His Gly His Leu Val Cys Ile Ser Ser Ser Ala Gly Leu Ser
 1 5 10 15
 Gly Val Asn Gly Leu Ala Asp Tyr Cys Ala Ser Lys Phe Ala Ala Phe
 20 25 30
 Gly Phe Ala Glu Ser Val Phe Val Glu Thr Phe Val Gln Lys Gln Lys
 35 40 45
 Gly Ile Lys Thr Thr Ile Val Cys Pro Phe Phe Ile Lys Thr Gly Met
 50 55 60
 Phe Glu Gly Cys Thr Thr Gly Cys Pro Ser Leu Leu Pro Ile Leu Glu
 65 70 75 80
 Pro Lys Tyr Ala Val Glu Lys Ile Val Glu Ala Ile Leu Gln Glu Lys
 85 90 95
 Met Tyr Leu Tyr Met Pro Lys Leu Leu Tyr Phe Met Met Phe Leu Lys
 100 105 110
 Ser Phe Leu Pro Leu Lys Thr Gly Leu Leu Ile Ala Asp Tyr Leu Gly
 115 120 125

Ile Leu His Ala Met Asp Gly Phe Ala Asp Gln Lys Lys
 130 135 140 141

<210> 2050
 <211> 204
 <212> PRT
 <213> Homo sapiens

<400> 2050
 Pro Thr Ala Glu Glu Met Ser Ser Leu Thr Pro Glu Ser Ser Pro Glu
 1 5 10 15
 Leu Ala Lys Arg Ser Trp Phe Gly Asn Phe Ile Ser Leu Asp Lys Glu
 20 25 30
 Glu Gln Ile Phe Leu Val Leu Lys Asp Lys Pro Leu Ser Ser Ile Lys
 35 40 45
 Ala Asp Ile Val His Ala Phe Leu Ser Ile Pro Ser Leu Ser His Ser
 50 55 60
 Val Leu Ser Gln Thr Ser Phe Arg Ala Glu Tyr Lys Ala Ser Gly Gly
 65 70 75 80
 Pro Ser Val Phe Gln Lys Pro Val Arg Phe Gln Val Asp Ile Ser Ser
 85 90 95
 Ser Glu Gly Pro Glu Pro Ser Pro Arg Arg Asp Gly Ser Gly Gly Gly
 100 105 110
 Gly Ile Tyr Ser Val Thr Phe Thr Leu Ile Ser Gly Pro Ser Arg Arg
 115 120 125
 Phe Lys Arg Val Val Glu Thr Ile Gln Ala Gln Leu Leu Ser Thr His
 130 135 140
 Asp Gln Pro Ser Val Gln Ala Leu Ala Asp Glu Lys Asn Gly Ala Gln
 145 150 155 160
 Thr Arg Pro Ala Gly Ala Pro Pro Arg Ser Leu Gln Pro Pro Pro Gly
 165 170 175
 Arg Pro Asp Pro Glu Leu Ser Ser Ser Pro Arg Arg Gly Pro Pro Lys
 180 185 190
 Asp Lys Lys Leu Leu Ala Thr Asn Gly Thr Pro Leu
 195 200 204

<210> 2051
 <211> 459
 <212> PRT
 <213> Homo sapiens

<400> 2051
 His Ala Ser Val Leu Phe Cys Arg Val Met Ala Ala Ser Lys Thr Gln
 1 5 10 15
 Gly Ala Val Ala Arg Met Gln Glu Asp Arg Asp Gly Ser Cys Ser Thr
 20 25 30
 Val Gly Gly Val Gly Tyr Gly Asp Ser Lys Asp Cys Ile Leu Glu Pro
 35 40 45
 Leu Ser Leu Pro Glu Ser Pro Gly Gly Thr Thr Thr Leu Glu Gly Ser
 50 55 60
 Pro Ser Val Pro Cys Ile Phe Cys Glu Glu His Phe Pro Val Ala Glu
 65 70 75 80
 Gln Asp Lys Leu Leu Lys His Met Ile Ile Glu His Lys Ile Val Ile
 85 90 95
 Ala Asp Val Lys Leu Val Ala Asp Phe Gln Arg Tyr Ile Leu Tyr Trp
 100 105 110
 Arg Lys Arg Phe Thr Glu Gln Pro Ile Thr Asp Phe Cys Ser Val Ile
 115 120 125

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Arg Ile Asn Ser Thr Ala Pro Phe Glu Glu Gln Glu Asn Tyr Phe Leu
130 135 140
Leu Cys Asp Val Leu Pro Glu Asp Arg Ile Leu Arg Glu Glu Leu Gln
145 150 155 160
Lys Gln Arg Leu Arg Glu Ile Leu Glu Gln Gln Gln Gln Glu Arg Asn
165 170 175
Asp Thr Asn Phe His Gly Val Cys Met Phe Cys Asn Glu Glu Phe Leu
180 185 190
Gly Asn Arg Ser Val Ile Leu Asn His Met Ala Arg Glu His Ala Phe
195 200 205
Asn Ile Gly Leu Pro Asp Asn Ile Val Asn Cys Asn Glu Phe Leu Cys
210 215 220
Thr Leu Gln Lys Lys Leu Asp Asn Leu Gln Cys Leu Tyr Cys Glu Lys
225 230 235 240
Thr Phe Arg Asp Lys Asn Thr Leu Lys Asp His Met Arg Lys Lys Gln
245 250 255
His Arg Lys Ile Asn Pro Lys Asn Arg Glu Tyr Asp Arg Phe Tyr Val
260 265 270
Ile Asn Tyr Leu Glu Leu Gly Lys Ser Trp Glu Glu Val Gln Leu Glu
275 280 285
Asp Asp Arg Glu Leu Leu Asp His Gln Glu Asp Asp Trp Ser Asp Trp
290 295 300
Glu Glu His Pro Ala Ser Ala Val Cys Leu Phe Cys Glu Lys Gln Ala
305 310 315 320
Glu Thr Ile Glu Lys Leu Tyr Val His Met Glu Asp Ala His Glu Phe
325 330 335
Asp Leu Leu Lys Ile Lys Ser Glu Leu Gly Leu Asn Phe Tyr Gln Gln
340 345 350
Val Lys Leu Val Asn Phe Ile Arg Arg Gln Val His Gln Cys Arg Cys
355 360 365
Tyr Gly Cys His Val Lys Phe Lys Ser Lys Ala Asp Leu Arg Thr His
370 375 380
Met Glu Glu Thr Lys His Thr Ser Leu Leu Pro Asp Arg Lys Thr Trp
385 390 395 400
Asp Gln Leu Glu Tyr Tyr Phe Pro Thr Tyr Glu Asn Asp Thr Leu Leu
405 410 415
Trp Thr Leu Ser Asp Ser Glu Ser Asp Leu Thr Ala Gln Glu Gln Asn
420 425 430
Glu Asn Val Pro Ile Ile Ser Glu Asp Thr Ser Lys Leu Tyr Ala Leu
435 440 445
Lys Gln Ser Ser Ile Leu Asn Gln Leu Leu Leu
450 455 459

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<210> 2052
<211> 321
<212> PRT
<213> Homo sapiens

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<400> 2052
Met Ala Ala Ala Thr Arg Gly Cys Arg Pro Trp Gly Ser Leu Leu Gly
1 5 10 15
Leu Leu Gly Leu Val Ser Ala Ala Ala Ala Trp Asp Leu Ala Ser
20 25 30
Leu Arg Cys Thr Leu Gly Ala Phe Cys Glu Cys Asp Phe Arg Pro Asp
35 40 45
Leu Pro Gly Leu Glu Cys Asp Leu Ala Gln His Leu Ala Gly Gln His
50 55 60
Leu Ala Lys Ala Leu Val Val Lys Ala Leu Lys Ala Phe Val Arg Asp
65 70 75 80
Pro Ala Pro Thr Lys Pro Leu Val Leu Ser Leu His Gly Trp Thr Gly
85 90 95

```

Thr Gly Lys Ser Tyr Val Ser Ser Leu Leu Ala His Tyr Leu Phe Gln
 100 105 110
 Gly Gly Leu Arg Ser Pro Arg Val His His Phe Ser Pro Val Leu His
 115 120 125
 Phe Pro His Pro Ser His Ile Glu Arg Tyr Lys Lys Asp Leu Lys Ser
 130 135 140
 Trp Val Gln Gly Asn Leu Thr Ala Cys Gly Arg Ser Leu Phe Leu Phe
 145 150 155 160
 Asp Glu Met Asp Lys Met Pro Pro Gly Leu Met Glu Val Leu Arg Pro
 165 170 175
 Phe Leu Gly Ser Ser Trp Val Val Tyr Gly Thr Asn Tyr Arg Lys Ala
 180 185 190
 Ile Phe Ile Phe Ile Ser Asn Thr Gly Gly Glu Gln Ile Asn Gln Val
 195 200 205
 Ala Leu Glu Ala Trp Arg Ser Arg Arg Asp Arg Glu Glu Ile Leu Leu
 210 215 220
 Gln Glu Leu Glu Pro Val Ile Ser Arg Ala Val Leu Asp Asn Pro His
 225 230 235 240
 His Gly Phe Ser Asn Ser Gly Ile Met Glu Glu Arg Leu Leu Asp Ala
 245 250 255
 Val Val Pro Phe Leu Pro Leu Gln Arg His His Val Arg His Cys Val
 260 265 270
 Leu Asn Glu Leu Ala Gln Leu Gly Leu Glu Pro Arg Asp Glu Val Val
 275 280 285
 Gln Ala Val Leu Asp Ser Thr Thr Phe Phe Pro Glu Asp Glu Gln Leu
 290 295 300
 Phe Ser Ser Asn Gly Cys Lys Thr Val Ala Ser Arg Ile Ala Phe Phe
 305 310 315 320
 Leu
 321

<210> 2053
 <211> 126
 <212> PRT
 <213> Homo sapiens

<400> 2053
 Leu Phe Leu Gln Lys Leu Arg Met Lys Thr Glu Glu Glu Ala Arg Thr
 1 5 10 15
 His Thr Glu Ile Glu Met Phe Leu Arg Lys Glu Gln Gln Lys Leu Glu
 20 25 30
 Glu Arg Leu Glu Phe Trp Met Glu Lys Tyr Asp Lys Asp Thr Glu Met
 35 40 45
 Lys Gln Asn Glu Leu Asn Ala Leu Lys Ala Thr Lys Ala Ser Asp Leu
 50 55 60
 Ala His Leu Gln Asp Leu Ala Lys Met Ile Arg Glu Tyr Glu Gln Val
 65 70 75 80
 Ile Ile Glu Asp Arg Ile Glu Lys Glu Arg Ser Lys Lys Lys Val Lys
 85 90 95
 Gln Asp Leu Leu Glu Leu Lys Ser Val Ile Lys Leu Gln Ala Trp Trp
 100 105 110
 Arg Gly Thr Met Ile Arg Arg Glu Ile Gly Gly Phe Lys Met
 115 120 125 126

<210> 2054
 <211> 334
 <212> PRT
 <213> Homo sapiens

<400> 2054

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Phe Arg Gly Arg Ala Val Lys Met Ala Ala Val Val Glu Val Glu Val
 1           5           10           15
Gly Gly Gly Ala Ala Gly Glu Arg Glu Leu Asp Glu Val Asp Met Ser
          20           25           30
Asp Leu Ser Pro Glu Glu Gln Trp Arg Val Glu His Ala Arg Met His
          35           40           45
Ala Lys His Arg Gly His Glu Ala Met His Ala Glu Met Val Leu Ile
          50           55           60
Leu Ile Ala Thr Leu Val Val Ala Gln Leu Leu Leu Val Gln Trp Lys
          65           70           75           80
Gln Arg His Pro Arg Ser Tyr Asn Met Val Thr Leu Phe Gln Met Trp
          85           90           95
Val Val Pro Leu Tyr Phe Thr Val Lys Leu His Trp Trp Arg Phe Leu
          100          105          110
Val Ile Trp Ile Leu Phe Ser Ala Val Thr Ala Phe Val Thr Phe Arg
          115          120          125
Ala Thr Arg Lys Pro Leu Val Gln Thr Thr Pro Arg Leu Val Tyr Lys
          130          135          140
Trp Phe Leu Leu Ile Tyr Lys Ile Ser Tyr Ala Thr Gly Ile Val Gly
          145          150          155          160
Tyr Met Ala Val Met Phe Thr Leu Phe Gly Leu Asn Leu Leu Phe Lys
          165          170          175
Ile Lys Pro Glu Asp Ala Met Asp Phe Gly Ile Ser Leu Leu Phe Tyr
          180          185          190
Gly Leu Tyr Tyr Gly Val Leu Glu Arg Asp Phe Ala Glu Met Cys Ala
          195          200          205
Asp Tyr Met Ala Ser Thr Ile Gly Phe Tyr Ser Glu Ser Gly Met Pro
          210          215          220
Thr Lys His Leu Ser Asp Ser Val Cys Ala Val Cys Gly Gln Gln Ile
          225          230          235          240
Phe Val Asp Val Ser Glu Gly Ile Ile Glu Asn Thr Tyr Arg Leu
          245          250          255
Ser Cys Asn His Val Phe His Glu Phe Cys Ile Arg Gly Trp Cys Ile
          260          265          270
Val Gly Lys Lys Gln Thr Cys Pro Tyr Cys Lys Glu Lys Val Asp Leu
          275          280          285
Lys Arg Met Phe Ser Asn Pro Trp Glu Arg Pro His Val Met Tyr Gly
          290          295          300
Gln Leu Leu Asp Trp Leu Arg Tyr Leu Val Ala Trp Gln Pro Val Ile
          305          310          315          320
Ile Gly Val Val Gln Gly Ile Asn Tyr Ile Leu Gly Leu Glu
          325          330          334

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<210> 2055

<211> 223

<212> PRT

<213> Homo sapiens

<400> 2055

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Ile Tyr Asp Arg Asp Pro Leu Gln Leu Ala Thr Arg Ala Gly Gln Pro
 1           5           10           15
Leu Asp Ile Asn Met Ala Gly Glu Pro Lys Pro Tyr Arg Pro Lys Pro
          20           25           30
Gly Asn Lys Arg Pro Leu Ser Ala Leu Tyr Arg Leu Glu Ser Lys Glu
          35           40           45
Pro Phe Leu Ser Val Gly Gly Tyr Val Phe Asp Tyr Asp Tyr Tyr Arg
          50           55           60
Asp Asp Phe Tyr Asn Arg Leu Phe Asp Tyr His Gly Arg Val Pro Pro
          65           70           75           80

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Pro Pro Arg Ala Val Ile Pro Leu Lys Arg Pro Arg Val Ala Val Thr
      85          90          95
Thr Thr Arg Arg Gly Lys Gly Val Phe Ser Met Lys Gly Gly Ser Arg
      100        105        110
Ser Thr Ala Ser Gly Ser Thr Gly Ser Lys Leu Lys Ser Asp Glu Leu
      115        120        125
Gln Thr Ile Lys Lys Glu Leu Thr Gln Ile Lys Thr Lys Ile Asp Ser
      130        135        140
Val Leu Gly Arg Leu Asp Lys Ile Glu Lys Gln Gln Lys Ala Glu Ala
      145        150        155        160
Glu Ala Gln Lys Lys Leu Leu Glu Glu Ser Leu Val Leu Ile Gln Glu
      165        170        175
Glu Cys Val Ser Glu Ile Ala Asp His Ser Thr Glu Glu Pro Ala Glu
      180        185        190
Gly Gly Pro Asp Ala Asp Gly Glu Glu Met Thr Asp Gly Ile Glu Glu
      195        200        205
Ala Phe Asp Glu Asp Gly Gly His Glu Leu Phe Leu Gln Ile Lys
      210        215        220        223

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<210> 2056
<211> 32
<212> PRT
<213> Homo sapiens

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<400> 2056
Gly Arg Val Gly Leu Asn Leu Glu Gly Arg Gly Cys Ser Glu Pro Lys
 1          5          10          15
Trp Arg His Cys Thr Pro Thr Trp Ala Thr Glu Gln Asp Ser Ile Ser
      20          25          30          32

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<210> 2057
<211> 93
<212> PRT
<213> Homo sapiens

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```

<400> 2057
Pro Phe Lys Leu Thr Pro Ser Phe Leu Ser His Ala Phe Ser Ser Gly
 1          5          10          15
Gln Glu Arg Lys Val Phe Ile Glu Leu Asn His Ile Lys Lys Cys Asn
      20          25          30
Thr Val Arg Gly Val Phe Val Leu Glu Glu Phe Gly Asn Tyr Thr Ile
      35          40          45
Leu Leu Leu Gly Leu Asp Ser His Gly Ser Asn Ser Asn Leu Gly Ala
      50          55          60
Pro Glu Glu Gly Leu Gly Ala Gly Arg Lys Arg Thr Ser Val Glu Lys
      65          70          75          80
Ser Gly Gly Ala Gly Val Thr Arg Lys Lys Arg Asp Pro
      85          90          93

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<210> 2058
<211> 95
<212> PRT
<213> Homo sapiens

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<400> 2058

```

Ser Ser Ser Asn Pro Leu Gly Ser Pro Ser Thr Leu Trp Lys Leu Cys
 1           5           10           15
Ser Phe Val Leu His Asn Lys Ser Cys Cys Cys Ser Phe Phe Gly Ser
           20           25           30
Thr Pro Thr Leu Arg Ala Ile Thr Leu Thr Val Arg Val Cys Gly Phe
           35           40           45
Ile Pro Glu Val Ser Lys Thr Thr Asn Pro Leu Gly Arg Thr Asn Asn
           50           55           60
Ser Gly Cys Thr Ile Phe Lys Thr Val Thr Leu Thr Ala Arg Ser Thr
65           70           75           80
Ala Ser Leu Leu Lys Ser Val Arg Pro Arg Thr His Gln Lys Glu
           85           90           95

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<210> 2059

<211> 110

<212> PRT

<213> Homo sapiens

<400> 2059

```

Arg Ile Arg His Glu Glu Lys Arg Gly Ser Arg Gly Arg Gly Arg Arg
 1           5           10           15
Thr Ser Glu Glu Asp Thr Pro Lys Lys Lys His Lys Gly Gly Ser
           20           25           30
Glu Phe Thr Asp Thr Ile Leu Ser Val His Pro Ser Asp Val Leu Asp
           35           40           45
Met Pro Val Asp Pro Asn Glu Pro Thr Tyr Cys Leu Cys His Gln Val
           50           55           60
Ser Tyr Gly Glu Met Ile Gly Cys Asp Asn Pro Asp Cys Pro Ile Glu
65           70           75           80
Trp Phe His Phe Ala Cys Val Asp Leu Thr Thr Lys Pro Lys Gly Lys
           85           90           95
Trp Phe Cys Pro Arg Cys Val Gln Glu Lys Arg Lys Lys Lys
           100           105           110

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<210> 2060

<211> 171

<212> PRT

<213> Homo sapiens

<400> 2060

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Gln Glu Ser Leu Lys Lys Lys Ile Gln Pro Lys Leu Ser Leu Thr Leu
 1           5           10           15
Ser Ser Ser Val Ser Arg Gly Asn Val Ser Thr Pro Pro Arg His Ser
           20           25           30
Ser Gly Ser Leu Thr Pro Pro Val Thr Pro Pro Ile Thr Pro Ser Ser
           35           40           45
Ser Phe Arg Ser Ser Thr Pro Thr Gly Ser Glu Tyr Asp Glu Glu Glu
           50           55           60
Val Asp Tyr Glu Glu Ser Asp Ser Asp Glu Ser Trp Thr Thr Glu Ser
65           70           75           80
Ala Ile Ser Ser Glu Ala Ile Leu Ser Ser Met Cys Met Asn Gly Gly
           85           90           95
Glu Glu Lys Pro Phe Ala Cys Pro Val Pro Gly Cys Lys Lys Arg Tyr
           100           105           110
Lys Asn Val Asn Gly Ile Lys Tyr His Ala Lys Asn Gly His Arg Thr
           115           120           125

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Gln Ile Arg Val Arg Lys Pro Phe Lys Cys Arg Cys Gly Lys Ser Tyr
 130 135 140
 Lys Thr Ala Gln Gly Leu Arg His His Thr Ile Asn Phe His Pro Pro
 145 150 155 160
 Val Ser Ala Glu Ile Ile Arg Lys Met Gln Gln
 165 170 171

<210> 2061
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 2061
 Gly Asp Ser Leu Cys Val Pro Gln Tyr Asn Lys Tyr Arg Glu Glu Arg
 1 5 10 15
 Val Ile Leu Phe Leu Lys Met Ala Ser Gly His Ala Phe Gln Pro Asp
 20 25 30
 Leu Val Lys Arg Ile Arg Asp Ala Ile Arg Met Gly Leu Ser Ala Arg
 35 40 45
 His Val Pro Ser Leu Ile Leu Glu Thr Lys Gly Ile Pro Tyr Thr Leu
 50 55 60
 Asn Gly Lys Lys Val Glu Val Ala Val Lys Gln Ile Ile Ala Gly Lys
 65 70 75 80
 Ala Val Glu Gln Gly Gly Ala Phe Ser Asn Pro Glu Thr Leu Asp Leu
 85 90 95
 Tyr Arg Asp Ile Pro Glu Leu Gln Gly Phe
 100 105 106

<210> 2062
 <211> 219
 <212> PRT
 <213> Homo sapiens

<400> 2062
 Arg Pro Thr Pro Gly His Gly Asp Phe Trp Met Gln Pro Leu Thr Lys
 1 5 10 15
 Asp Ala Gly Met Ser Leu Ser Ser Val Thr Leu Ala Ser Ala Leu Gln
 20 25 30
 Val Arg Gly Glu Ala Leu Ser Glu Glu Ile Trp Ser Leu Leu Phe
 35 40 45
 Leu Ala Ala Glu Gln Leu Leu Glu Asp Leu Arg Asn Asp Ser Ser Asp
 50 55 60
 Tyr Val Val Cys Pro Trp Ser Ala Leu Leu Ser Ala Ala Gly Ser Leu
 65 70 75 80
 Ser Phe Gln Gly Arg Val Ser His Ile Glu Ala Ala Pro Phe Lys Ala
 85 90 95
 Pro Glu Leu Leu Gln Gly Gln Ser Glu Asp Glu Gln Pro Asp Ala Ser
 100 105 110
 Gln Met His Val Tyr Ser Leu Gly Met Thr Leu Tyr Trp Ser Ala Gly
 115 120 125
 Phe His Val Pro Pro His Gln Pro Leu Gln Leu Cys Glu Pro Leu His
 130 135 140
 Ser Ile Leu Leu Thr Met Cys Glu Asp Gln Pro His Arg Arg Cys Thr
 145 150 155 160
 Leu Gln Ser Val Leu Glu Ala Cys Arg Val His Glu Lys Glu Val Ser
 165 170 175
 Val Tyr Pro Ala Pro Ala Gly Leu His Ile Arg Arg Leu Val Gly Leu
 180 185 190

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Val Leu Gly Thr Ile Ser Glu Val Ser Arg Glu Pro Cys Phe Ser Ser
    195          200          205
Ser Ser Cys Trp Ser Cys Val Ala Ile Lys Ile
    210          215          219

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<210> 2063
<211> 152
<212> PRT
<213> Homo sapiens

```

```

<400> 2063
Val Glu Glu Leu Ile Leu Val Ser Arg Leu Asp Pro His Leu His Thr
  1          5          10          15
Pro Met Tyr Phe Phe Leu Ala His Leu Ser Phe Leu Asp Leu Ser Phe
    20          25          30
Thr Thr Ser Ser Ile Pro Gln Leu Leu Tyr Asn Leu Asn Gly Cys Asp
    35          40          45
Lys Thr Ile Ser Tyr Met Gly Cys Ala Ile Gln Leu Phe Leu Phe Leu
    50          55          60
Gly Leu Gly Gly Val Glu Cys Leu Leu Leu Ala Val Met Ala Tyr Asp
    65          70          75          80
Arg Cys Val Ala Ile Cys Lys Pro Leu His Tyr Met Val Ile Met Asn
    85          90          95
Pro Arg Leu Cys Arg Gly Leu Val Ser Val Thr Trp Gly Cys Gly Val
    100          105          110
Ala Asn Ser Leu Ala Met Ser Pro Val Thr Leu Arg Leu Pro Arg Cys
    115          120          125
Gly His His Glu Val Asp His Phe Leu Cys Glu Met Pro Ala Leu Ile
    130          135          140
Arg Met Ala Cys Ile Ser Thr Val
    145          150          152

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<210> 2064
<211> 65
<212> PRT
<213> Homo sapiens

```

```

<400> 2064
Ala Ile Arg Pro Tyr Trp Cys Glu Asn Asn Ile Ile Gly Ile Gly Lys
  1          5          10          15
Leu Ser Thr Ala Asp Gly Lys Ala Phe Ala Asp Pro Glu Val Leu Arg
    20          25          30
Arg Leu Thr Ser Ser Val Ser Cys Ala Leu Asp Glu Ala Ala Ala
    35          40          45
Leu Thr Arg Met Arg Ala Glu Ser Thr Ala Asn Ala Gly Gln Ser Asp
    50          55          60
Lys
    65

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<210> 2065
<211> 268
<212> PRT
<213> Homo sapiens

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<400> 2065

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Lys Val Thr Ala Pro Arg Arg Pro Gln Arg Tyr Ser Ser Gly His Gly
 1          5          10          15
Ser Asp Asn Ser Ser Val Leu Ser Gly Glu Leu Pro Pro Ala Met Gly
          20          25          30
Arg Thr Ala Leu Phe His His Ser Gly Gly Ser Ser Gly Tyr Glu Ser
          35          40          45
Leu Arg Arg Asp Ser Glu Ala Thr Gly Ser Ala Ser Ser Ala Pro Asp
          50          55          60
Ser Met Ser Glu Ser Gly Ala Ala Ser Pro Gly Ala Arg Thr Arg Ser
          65          70          75          80
Leu Lys Ser Pro Lys Lys Arg Ala Thr Gly Leu Gln Arg Arg Arg Leu
          85          90          95
Ile Pro Ala Pro Leu Pro Asp Thr Thr Ala Leu Gly Arg Lys Pro Ser
          100          105          110
Leu Pro Gly Gln Trp Val Asp Leu Pro Pro Pro Leu Ala Gly Ser Leu
          115          120          125
Lys Glu Pro Phe Glu Ile Lys Val Tyr Glu Ile Asp Asp Val Glu Arg
          130          135          140
Leu Gln Arg Pro Arg Pro Thr Pro Arg Glu Ala Pro Thr Gln Gly Leu
          145          150          155          160
Ala Cys Val Ser Thr Arg Leu Arg Leu Ala Glu Arg Arg Gln Gln Arg
          165          170          175
Leu Arg Glu Val Gln Ala Lys His Lys His Leu Cys Glu Glu Leu Ala
          180          185          190
Glu Thr Gln Gly Arg Leu Met Leu Glu Pro Gly Arg Trp Leu Glu Gln
          195          200          205
Phe Glu Val Asp Pro Glu Leu Glu Pro Glu Ser Ala Glu Tyr Leu Ala
          210          215          220
Ala Leu Glu Arg Ala Thr Ala Ala Leu Glu Gln Cys Val Asn Leu Cys
          225          230          235          240
Lys Ala His Val Met Met Val Thr Cys Phe Asp Ile Ser Val Ala Ala
          245          250          255
Ser Ala Ala Ile Pro Gly Pro Gln Glu Val Asp Val
          260          265          268

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<210> 2066

<211> 111

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(111)

<223> Xaa = any amino acid or nothing

<400> 2066

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Ser Pro Gly Tyr Gly Glu Asn Lys Phe Thr Val Thr Ser Xaa Asn Ile
 1          5          10          15
Ala Val Pro Leu Cys Glu Met Asn Lys Ile Tyr Ser Tyr Tyr Ser Asp
          20          25          30
Ser Ser Ser Ser Glu Arg Thr Met Asp Leu Val Leu Glu Met Cys Asn
          35          40          45
Thr Asn Ser Ile His Trp Cys Gly Ile Ser Gly Arg Gln Leu Gly Lys
          50          55          60
Leu His Pro Ser Ser Ser Leu Cys Leu Ala Leu Thr Leu Leu Ser Ser
          65          70          75          80
Val Gln Gly Leu Gln Ser Ile Ser Gly Leu Arg Leu Thr Asp Thr Phe
          85          90          95
Leu Lys Arg Thr Tyr Glu Tyr Asp Asp Ile Ala Gln Val Cys Val
          100          105          110          111

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<210> 2067
 <211> 152
 <212> PRT
 <213> Homo sapiens

<400> 2067
 Asn Ser Glu Asp Leu Leu Lys Tyr Phe Asn Pro Glu Ser Trp Gln Glu
 1 5 10 15
 Asp Leu Asp Asn Met Tyr Leu Asp Thr Pro Arg Tyr Arg Gly Arg Ser
 20 25 30
 Tyr His Asp Arg Lys Ser Lys Val Asp Leu Asp Arg Leu Asn Asp Asp
 35 40 45
 Ala Lys Arg Tyr Ser Cys Thr Pro Arg Asn Tyr Ser Val Asn Ile Arg
 50 55 60
 Glu Glu Leu Lys Leu Ala Asn Val Val Phe Phe Pro Arg Cys Leu Leu
 65 70 75 80
 Val Gln Arg Cys Gly Gly Asn Cys Gly Cys Gly Thr Val Asn Trp Arg
 85 90 95
 Ser Cys Thr Cys Asn Ser Gly Lys Thr Val Lys Lys Tyr His Glu Val
 100 105 110
 Leu Gln Phe Glu Pro Gly His Ile Lys Arg Arg Gly Arg Ala Lys Thr
 115 120 125
 Met Ala Leu Val Asp Ile Gln Leu Asp His His Glu Arg Cys Asp Cys
 130 135 140
 Ile Cys Ser Ser Arg Pro Pro Arg
 145 150 152

<210> 2068
 <211> 74
 <212> PRT
 <213> Homo sapiens

<400> 2068
 Ala Val Leu Lys Asn Met Ala Pro Met Thr Ala Leu Gly Leu Leu Asp
 1 5 10 15
 Leu His Ile Leu Asn Leu Ile Leu Phe Leu Ser Ala Gly Glu Asp Phe
 20 25 30
 Thr Ser Val Val Ser Glu Ile Met Met Tyr Ile Leu Leu Val Phe Leu
 35 40 45
 Thr Leu Trp Leu Leu Ile Glu Met Ile Tyr Cys Tyr Arg Lys Val Ser
 50 55 60
 Lys Ala Glu Glu Ala Ala Gln Glu Asn Ala
 65 70 74

<210> 2069
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 2069
 Lys Asn Cys Ala Asn Glu Ala Val Val Gln Lys Ile Leu Asp Arg Val
 1 5 10 15
 Leu Ser Arg Tyr Asp Val Arg Leu Arg Pro Asn Phe Gly Ser Met Leu
 20 25 30
 Ala Thr Asn Ser Thr Arg Gly Leu Asn Glu Asp Glu Leu Met Ala His
 35 40 45

Gly Gln Glu Lys Asp Ser Ser Ser Glu Ser Glu Asp Ser Cys Pro Pro
 50 55 60
 Ser Pro Gly Cys Ser Phe Thr Glu Gly Phe Ser Phe Asp Leu Leu Asn
 65 70 75 80
 Pro Asp Tyr Val Pro Lys Val Asp Lys Trp Ser Arg Phe Leu Phe Pro
 85 90 95
 Leu Ala Phe Gly Leu Phe Asn Ile Val Ala Ala Glu Arg Cys
 100 105 110

<210> 2070

<211> 217

<212> PRT

<213> Homo sapiens

<400> 2070

Leu Pro Pro Ala Gln Ile Pro Glu Ala Trp Leu Leu Leu Ala Asn Val
 1 5 10 15
 Val Val Val Leu Ile Leu Val Pro Leu Lys Asp Arg Leu Ile Asp Pro
 20 25 30
 Leu Leu Leu Arg Cys Lys Leu Leu Pro Ser Ala Leu Gln Lys Met Ala
 35 40 45
 Leu Gly Met Phe Phe Gly Phe Thr Ser Val Ile Val Ala Gly Val Leu
 50 55 60
 Glu Met Glu Arg Leu His Tyr Ile His His Asn Glu Thr Val Ser Gln
 65 70 75 80
 Gln Ile Gly Glu Val Leu Tyr Asn Ala Ala Pro Leu Ser Ile Trp Trp
 85 90 95
 Gln Ile Pro Gln Tyr Leu Leu Ile Gly Ile Ser Glu Ile Phe Ala Ser
 100 105 110
 Ile Pro Gly Leu Glu Phe Ala Tyr Ser Glu Ala Pro Arg Ser Met Gln
 115 120 125
 Gly Ala Ile Met Gly Ile Phe Phe Cys Leu Ser Gly Val Gly Ser Leu
 130 135 140
 Leu Gly Ser Ser Leu Val Ala Leu Leu Ser Leu Pro Gly Gly Trp Leu
 145 150 155 160
 His Cys Pro Lys Asp Phe Gly Asn Ile Asn Asn Cys Arg Met Asp Leu
 165 170 175
 Tyr Phe Phe Leu Leu Ala Gly Ile Gln Ala Val Thr Ala Leu Leu Phe
 180 185 190
 Val Trp Ile Ala Gly Arg Tyr Glu Arg Ala Ser Gln Gly Pro Ala Ser
 195 200 205
 His Ser Arg Phe Ser Arg Asp Arg Gly
 210 215 217

<210> 2071

<211> 130

<212> PRT

<213> Homo sapiens

<400> 2071

Met Ser Ala Leu Ile Val Arg Lys Leu Arg Ser Ala Glu Leu Thr Leu
 1 5 10 15
 Phe Ser Glu Leu Pro Thr Val Leu Gly Ala Asn Val Asn Ala Ala Lys
 20 25 30
 Leu His Glu Thr Ala Leu His His Ala Ala Lys Val Lys Asn Val Asp
 35 40 45
 Leu Ile Glu Met Leu Ile Glu Phe Gly Gly Asn Ile Tyr Ala Arg Asp
 50 55 60

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Asn Arg Gly Lys Lys Pro Ser Asp Tyr Thr Trp Ser Ser Ser Ala Pro
65          70          75          80
Ala Lys Cys Phe Glu Tyr Tyr Glu Lys Thr Pro Leu Thr Leu Ser Gln
          85          90          95
Leu Cys Arg Val Asn Leu Arg Lys Ala Thr Gly Val Arg Gly Leu Glu
          100          105          110
Lys Ile Ala Lys Leu Asn Ile Pro Pro Arg Leu Ile Asp Tyr Leu Ser
          115          120          125
Tyr Asn
          130

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<210> 2072
<211> 1268
<212> PRT
<213> Homo sapiens

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<400> 2072
Cys Pro Ser Leu Asp Ile Arg Ser Glu Val Ala Glu Leu Arg Gln Leu
1          5          10          15
Glu Asn Cys Ser Val Val Glu Gly His Leu Gln Ile Leu Leu Met Phe
          20          25          30
Thr Ala Thr Gly Glu Asp Phe Arg Gly Leu Ser Phe Pro Arg Leu Thr
          35          40          45
Gln Val Thr Asp Tyr Leu Leu Phe Arg Val Tyr Gly Leu Glu Ser
          50          55          60
Leu Arg Asp Leu Phe Pro Asn Leu Ala Val Ile Arg Gly Thr Arg Leu
65          70          75          80
Phe Leu Gly Tyr Ala Leu Val Ile Phe Glu Met Pro His Leu Arg Asp
          85          90          95
Val Ala Leu Pro Ala Leu Gly Ala Val Leu Arg Gly Ala Val Arg Val
          100          105          110
Glu Lys Asn Gln Glu Leu Cys His Leu Ser Thr Ile Asp Trp Gly Leu
          115          120          125
Leu Gln Pro Ala Pro Gly Ala Asn His Ile Val Gly Asn Lys Leu Gly
          130          135          140
Glu Glu Cys Ala Asp Val Cys Pro Gly Val Leu Gly Ala Ala Gly Glu
145          150          155          160
Pro Cys Ala Lys Thr Thr Phe Ser Gly His Thr Asp Tyr Arg Cys Trp
          165          170          175
Thr Ser Ser His Cys Gln Arg Val Cys Pro Cys Pro His Gly Met Ala
          180          185          190
Cys Thr Ala Arg Gly Glu Cys Cys His Thr Glu Cys Leu Gly Gly Cys
          195          200          205
Ser Gln Pro Glu Asp Pro Arg Ala Cys Val Ala Cys Arg His Leu Tyr
          210          215          220
Phe Gln Gly Ala Cys Leu Trp Ala Cys Pro Pro Gly Thr Tyr Gln Tyr
225          230          235          240
Glu Ser Trp Arg Cys Val Thr Ala Glu Arg Cys Ala Ser Leu His Ser
          245          250          255
Val Pro Gly Arg Ala Ser Thr Phe Gly Ile His Gln Gly Ser Cys Leu
          260          265          270
Ala Gln Cys Pro Ser Gly Phe Thr Arg Asn Ser Ser Ser Ile Phe Cys
          275          280          285
His Lys Cys Glu Gly Leu Cys Pro Lys Glu Cys Lys Val Gly Thr Lys
          290          295          300
Thr Ile Asp Ser Ile Gln Ala Ala Gln Asp Leu Val Gly Cys Thr His
305          310          315          320
Val Glu Gly Ser Leu Ile Leu Asn Leu Arg Gln Gly Tyr Asn Leu Glu
          325          330          335
Pro Gln Leu Gln His Ser Leu Gly Leu Val Glu Thr Ile Thr Gly Phe
          340          345          350

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Leu Lys Ile Lys His Ser Phe Ala Leu Val Ser Leu Gly Phe Phe Lys
 355 360 365
 Asn Leu Lys Leu Ile Arg Gly Asp Ala Met Val Asp Gly Asn Tyr Thr
 370 375 380
 Leu Tyr Val Leu Asp Asn Gln Asn Leu Gln Gln Leu Gly Ser Trp Val
 385 390 395 400
 Ala Ala Gly Leu Thr Ile Pro Val Gly Lys Ile Tyr Phe Ala Phe Asn
 405 410 415
 Pro Arg Leu Cys Leu Glu His Ile Tyr Arg Leu Glu Glu Val Thr Gly
 420 425 430
 Thr Arg Gly Arg Gln Asn Lys Ala Glu Ile Asn Pro Arg Thr Asn Gly
 435 440 445
 Asp Arg Ala Ala Cys Gln Thr Arg Thr Leu Arg Phe Val Ser Asn Val
 450 455 460
 Thr Glu Ala Asp Arg Ile Leu Leu Arg Trp Glu Arg Tyr Glu Pro Leu
 465 470 475 480
 Glu Ala Arg Asp Leu Leu Ser Phe Ile Val Tyr Tyr Lys Glu Ser Pro
 485 490 495
 Phe Gln Asn Ala Thr Glu His Val Gly Pro Asp Ala Cys Gly Thr Gln
 500 505 510
 Ser Trp Asn Leu Leu Asp Val Glu Leu Pro Leu Ser Arg Thr Gln Glu
 515 520 525
 Pro Gly Val Thr Leu Ala Ser Leu Lys Pro Trp Thr Gln Tyr Ala Val
 530 535 540
 Phe Val Arg Ala Ile Thr Leu Thr Thr Glu Glu Asp Ser Pro His Gln
 545 550 555 560
 Gly Ala Gln Ser Pro Ile Val Tyr Leu Arg Thr Leu Pro Ala Ala Pro
 565 570 575
 Thr Val Pro Gln Asp Val Ile Ser Thr Ser Asn Ser Ser Ser His Leu
 580 585 590
 Leu Val Arg Trp Lys Pro Pro Thr Gln Arg Asn Gly Asn Leu Thr Tyr
 595 600 605
 Tyr Leu Val Leu Trp Gln Arg Leu Ala Glu Asp Gly Asp Leu Tyr Leu
 610 615 620
 Asn Asp Tyr Cys His Arg Gly Leu Arg Leu Pro Thr Ser Asn Asn Asp
 625 630 635 640
 Pro Arg Phe Asp Gly Glu Asp Gly Asp Pro Glu Ala Glu Met Glu Ser
 645 650 655
 Asp Cys Cys Pro Cys Gln His Pro Pro Gly Gln Val Leu Pro Pro
 660 665 670
 Leu Glu Ala Gln Glu Ala Ser Phe Gln Lys Lys Phe Glu Asn Phe Leu
 675 680 685
 His Asn Ala Ile Thr Ile Pro Ile Ser Pro Trp Lys Val Thr Ser Ile
 690 695 700
 Asn Lys Ser Pro Gln Arg Asp Ser Gly Arg His Arg Arg Ala Ala Gly
 705 710 715 720
 Pro Leu Arg Leu Gly Gly Asn Ser Ser Asp Phe Glu Ile Gln Glu Asp
 725 730 735
 Lys Val Pro Arg Glu Arg Ala Val Leu Ser Gly Leu Arg His Phe Thr
 740 745 750
 Glu Tyr Arg Ile Asp Ile His Ala Cys Asn His Ala Ala His Thr Val
 755 760 765
 Gly Cys Ser Ala Ala Thr Phe Val Phe Ala Arg Thr Met Pro His Arg
 770 775 780
 Glu Ala Asp Gly Ile Pro Gly Lys Val Ala Trp Glu Ala Ser Ser Lys
 785 790 795 800
 Asn Ser Val Leu Leu Arg Trp Leu Glu Pro Pro Asp Pro Asn Gly Leu
 805 810 815
 Ile Leu Lys Tyr Glu Ile Lys Tyr Arg Arg Leu Gly Glu Glu Ala Thr
 820 825 830
 Val Leu Cys Val Ser Arg Leu Arg Tyr Ala Lys Phe Gly Gly Val His
 835 840 845
 Leu Ala Leu Leu Pro Pro Gly Asn Tyr Ser Ala Arg Val Arg Ala Thr
 850 855 860

Ser Leu Ala Gly Asn Gly Ser Trp Thr Asp Ser Val Ala Phe Tyr Ile
 865 870 875 880
 Leu Gly Pro Glu Glu Asp Ala Gly Gly Leu His Val Leu Leu Thr
 885 890 895
 Ala Thr Pro Val Gly Leu Thr Leu Leu Ile Val Leu Ala Ala Leu Gly
 900 905 910
 Phe Phe Tyr Gly Lys Lys Arg Asn Arg Thr Leu Tyr Ala Ser Val Asn
 915 920 925
 Pro Glu Tyr Phe Ser Ala Ser Asp Met Tyr Val Pro Asp Glu Trp Glu
 930 935 940
 Val Pro Arg Glu Gln Ile Ser Ile Ile Arg Glu Leu Gly Gln Gly Ser
 945 950 955 960
 Phe Gly Met Val Tyr Glu Gly Leu Ala Arg Gly Leu Glu Ala Gly Glu
 965 970 975
 Glu Ser Thr Pro Val Ala Leu Lys Thr Val Asn Glu Leu Ala Ser Pro
 980 985 990
 Arg Glu Cys Ile Glu Phe Leu Lys Glu Ala Ser Val Met Lys Ala Phe
 995 1000 1005
 Lys Cys His His Val Val Arg Leu Leu Gly Val Val Ser Gln Gly Gln
 1010 1015 1020
 Pro Thr Leu Val Ile Met Glu Leu Met Thr Arg Gly Asp Leu Lys Ser
 1025 1030 1035 1040
 His Leu Arg Ser Leu Arg Pro Glu Ala Glu Asn Asn Pro Gly Leu Pro
 1045 1050 1055
 Gln Pro Ala Leu Gly Glu Met Ile Gln Met Ala Gly Glu Ile Ala Asp
 1060 1065 1070
 Gly Met Ala Tyr Leu Ala Ala Asn Lys Phe Val His Arg Asp Leu Ala
 1075 1080 1085
 Ala Arg Asn Cys Met Val Ser Gln Asp Phe Thr Val Lys Ile Gly Asp
 1090 1095 1100
 Phe Gly Met Thr Arg Asp Val Tyr Glu Thr Asp Tyr Tyr Arg Lys Gly
 1105 1110 1115 1120
 Gly Lys Gly Leu Leu Pro Val Arg Trp Met Ala Pro Glu Ser Leu Lys
 1125 1130 1135
 Asp Gly Ile Phe Thr Thr His Ser Asp Val Trp Ser Phe Gly Val Val
 1140 1145 1150
 Leu Trp Glu Ile Val Thr Leu Ala Glu Gln Pro Tyr Gln Gly Leu Ser
 1155 1160 1165
 Asn Glu Gln Val Leu Lys Phe Val Met Asp Gly Gly Val Leu Glu Glu
 1170 1175 1180
 Leu Glu Gly Cys Pro Leu Gln Leu Gln Glu Leu Met Ser Arg Cys Trp
 1185 1190 1195 1200
 Gln Pro Asn Pro Arg Leu Arg Pro Ser Phe Thr His Ile Leu Asp Ser
 1205 1210 1215
 Ile Gln Glu Glu Leu Arg Pro Ser Phe Arg Leu Leu Ser Phe Tyr Tyr
 1220 1225 1230
 Ser Pro Glu Cys Arg Gly Ala Arg Gly Ser Leu Pro Thr Thr Asp Ala
 1235 1240 1245
 Glu Pro Asp Ser Ser Pro Thr Pro Arg Asp Cys Ser Pro Gln Asn Gly
 1250 1255 1260
 Gly Pro Gly His
 1265 1268

<210> 2073
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 2073
 Leu Ala Trp Ile Asp Asn Ile Leu Pro Glu Lys Glu Lys Lys Glu Thr
 1 5 10 15

Asp Lys Lys Arg Lys Arg Lys Lys Gly Ala His Glu Asp Cys Asp Glu
 20 25 30
 Glu Pro Gln Phe Pro Pro Pro Ser Val Ile Lys Ile Pro Met Glu Ser
 35 40 45
 Val Gln Ser Asp Pro Gln Asn Gly Ile His Cys Ile Ala Arg Lys Arg
 50 55 60
 Ser Ser Ser Trp Ser Tyr Ser Leu
 65 70 72

<210> 2074

<211> 1098

<212> PRT

<213> Homo sapiens

<400> 2074

Ala Arg Gly Arg Arg Ser Arg Pro Val Trp Ala Ala Ser Trp Gly Gly
 1 5 10 15
 Arg Gly Arg Pro Ala Ala Arg Arg Arg Pro Arg Gly Leu Ala Ala Thr
 20 25 30
 Met Gly Phe Glu Leu Asp Arg Phe Asp Gly Asp Val Asp Pro Asp Leu
 35 40 45
 Lys Cys Ala Leu Cys His Lys Val Leu Glu Asp Pro Leu Thr Thr Pro
 50 55 60
 Cys Gly His Val Phe Cys Ala Gly Cys Val Leu Pro Trp Val Val Gln
 65 70 75 80
 Glu Gly Ser Cys Pro Ala Arg Cys Arg Gly Arg Leu Ser Ala Lys Glu
 85 90 95
 Leu Asn His Val Leu Pro Leu Lys Arg Leu Ile Leu Lys Leu Asp Ile
 100 105 110
 Lys Cys Ala Tyr Ala Thr Arg Gly Cys Gly Arg Val Val Lys Leu Gln
 115 120 125
 Gln Leu Pro Glu His Leu Glu Arg Cys Asp Phe Ala Pro Ala Arg Cys
 130 135 140
 Arg His Ala Gly Cys Gly Gln Val Leu Leu Arg Arg Asp Val Glu Ala
 145 150 155 160
 His Met Arg Asp Ala Cys Asp Ala Arg Pro Val Gly Arg Cys Gln Glu
 165 170 175
 Gly Cys Gly Leu Pro Leu Thr His Gly Glu Gln Arg Ala Gly Gly His
 180 185 190
 Cys Cys Ala Arg Ala Leu Arg Ala His Asn Gly Ala Leu Gln Ala Arg
 195 200 205
 Leu Gly Ala Leu His Lys Ala Leu Lys Lys Glu Ala Leu Arg Ala Gly
 210 215 220
 Lys Arg Glu Lys Ser Leu Val Ala Gln Leu Ala Ala Ala Gln Leu Glu
 225 230 235 240
 Leu Gln Met Thr Ala Leu Arg Tyr Gln Lys Lys Phe Thr Glu Tyr Ser
 245 250 255
 Ala Arg Leu Asp Ser Leu Ser Arg Cys Val Ala Ala Pro Pro Gly Gly
 260 265 270
 Lys Gly Glu Glu Thr Lys Ser Leu Thr Leu Val Leu His Arg Asp Ser
 275 280 285
 Gly Ser Leu Gly Phe Asn Ile Ile Gly Gly Arg Pro Ser Val Asp Asn
 290 295 300
 His Asp Gly Ser Ser Ser Glu Gly Ile Phe Val Ser Lys Ile Val Asp
 305 310 315 320
 Ser Gly Pro Ala Ala Lys Glu Gly Gly Leu Gln Ile His Asp Arg Ile
 325 330 335
 Ile Glu Val Asn Gly Arg Asp Leu Ser Arg Ala Thr His Asp Gln Ala
 340 345 350
 Val Glu Ala Phe Lys Thr Ala Lys Glu Pro Ile Val Val Gln Val Leu
 355 360 365

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Arg Arg Thr Pro Arg Thr Lys Met Phe Thr Pro Pro Ser Glu Ser Gln
370          375          380
Leu Val Asp Thr Gly Thr Gln Thr Asp Ile Thr Phe Glu His Ile Met
385          390          395          400
Ala Leu Thr Lys Met Ser Ser Pro Ser Pro Pro Val Leu Asp Pro Tyr
405          410          415
Leu Leu Pro Glu Glu His Pro Ser Ala His Glu Tyr Tyr Asp Pro Asn
420          425          430
Asp Tyr Ile Gly Asp Ile His Gln Glu Met Asp Arg Glu Glu Leu Glu
435          440          445
Leu Glu Glu Val Asp Leu Tyr Arg Met Asn Ser Gln Asp Lys Leu Gly
450          455          460
Leu Thr Val Cys Tyr Arg Thr Asp Asp Glu Asp Asp Ile Gly Ile Tyr
465          470          475          480
Ile Ser Glu Ile Asp Pro Asn Ser Ile Ala Ala Lys Asp Gly Arg Ile
485          490          495
Arg Glu Gly Asp Arg Ile Ile Gln Ile Asn Gly Ile Glu Val Gln Asn
500          505          510
Arg Glu Glu Ala Val Ala Leu Leu Thr Ser Glu Glu Asn Lys Asn Phe
515          520          525
Ser Leu Leu Ile Ala Arg Ala Glu Leu Gln Leu Asp Glu Gly Trp Met
530          535          540
Asp Asp Asp Arg Asn Asp Phe Leu Asp Asp Leu His Met Asp Met Leu
545          550          555          560
Glu Glu Gln His His Gln Ala Met Gln Phe Thr Ala Ser Val Leu Gln
565          570          575
Gln Lys Lys His Asp Glu Asp Gly Gly Thr Thr Asp Thr Ala Thr Ile
580          585          590
Leu Ser Asn Gln His Glu Lys Asp Ser Gly Val Gly Arg Thr Asp Glu
595          600          605
Ser Thr Arg Asn Asp Glu Ser Ser Glu Gln Glu Asn Asn Gly Asp Asp
610          615          620
Ala Thr Ala Ser Ser Asn Pro Leu Ala Gly Gln Arg Lys Leu Thr Cys
625          630          635          640
Ser Gln Asp Thr Leu Gly Ser Gly Asp Leu Pro Phe Ser Asn Glu Ser
645          650          655
Phe Ile Ser Ala Asp Cys Thr Asp Ala Asp Tyr Leu Gly Ile Pro Val
660          665          670
Asp Glu Cys Glu Arg Phe Arg Glu Leu Leu Glu Leu Lys Cys Gln Val
675          680          685
Lys Ser Ala Thr Pro Tyr Gly Leu Tyr Tyr Pro Ser Gly Pro Leu Asp
690          695          700
Ala Gly Lys Ser Asp Pro Glu Ser Val Asp Lys Glu Leu Glu Leu Leu
705          710          715          720
Asn Glu Glu Leu Arg Ser Ile Glu Leu Glu Cys Leu Ser Ile Val Arg
725          730          735
Ala His Lys Met Gln Gln Leu Lys Glu Gln Tyr Arg Glu Ser Trp Met
740          745          750
Leu His Asn Ser Gly Phe Arg Asn Tyr Asn Thr Ser Ile Asp Val Arg
755          760          765
Arg His Glu Leu Ser Asp Ile Thr Glu Leu Pro Glu Lys Ser Asp Lys
770          775          780
Asp Ser Ser Ser Ala Tyr Asn Thr Gly Glu Ser Cys Arg Ser Thr Pro
785          790          795          800
Leu Thr Leu Glu Ile Ser Pro Asp Asn Ser Leu Arg Arg Ala Ala Glu
805          810          815
Gly Ile Ser Cys Pro Ser Ser Glu Gly Ala Val Gly Thr Thr Glu Ala
820          825          830
Tyr Gly Pro Ala Ser Lys Asn Leu Leu Ser Ile Thr Glu Asp Pro Glu
835          840          845
Val Gly Thr Pro Thr Tyr Ser Pro Ser Leu Lys Glu Leu Asp Pro Asn
850          855          860
Gln Pro Leu Glu Ser Lys Glu Arg Arg Ala Ser Asp Gly Ser Arg Ser
865          870          875          880

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Pro Thr Pro Ser Gln Lys Leu Gly Ser Ala Tyr Leu Pro Ser Tyr His
 885 890 895
 His Ser Pro Tyr Lys His Ala His Ile Pro Ala His Ala Gln His Tyr
 900 905 910
 Gln Ser Tyr Met Gln Leu Ile Gln Gln Lys Ser Ala Val Glu Tyr Ala
 915 920 925
 Gln Ser Gln Met Ser Leu Val Ser Met Cys Lys Asp Leu Ser Ser Pro
 930 935 940
 Thr Pro Ser Glu Pro Arg Met Glu Trp Lys Val Lys Ile Arg Ser Asp
 945 950 955 960
 Gly Thr Arg Tyr Ile Thr Lys Arg Pro Val Arg Asp Arg Leu Leu Arg
 965 970 975
 Glu Arg Ala Leu Lys Ile Arg Glu Glu Arg Ser Gly Met Thr Thr Asp
 980 985 990
 Asp Asp Ala Val Ser Glu Met Lys Met Gly Arg Tyr Trp Ser Lys Glu
 995 1000 1005
 Glu Arg Lys Gln His Leu Val Lys Ala Lys Glu Gln Arg Arg Arg Arg
 1010 1015 1020
 Glu Phe Met Met Gln Ser Arg Leu Asp Cys Leu Lys Glu Gln Gln Ala
 1025 1030 1035 1040
 Ala Asp Asp Arg Lys Glu Met Asn Ile Leu Glu Leu Ser His Lys Lys
 1045 1050 1055
 Met Met Lys Lys Arg Asn Lys Lys Ile Phe Asp Asn Trp Met Thr Ile
 1060 1065 1070
 Gln Glu Leu Leu Thr His Gly Thr Lys Ser Pro Asp Gly Thr Arg Val
 1075 1080 1085
 Tyr Asn Ser Phe Leu Ser Val Thr Thr Val
 1090 1095 1098

<210> 2075
 <211> 588
 <212> PRT
 <213> Homo sapiens

<400> 2075
 Gln Ile Ser Thr Glu Val Ser Glu Ala Pro Val Ala Asn Asp Lys Pro
 1 5 10 15
 Lys Thr Leu Val Val Lys Val Gln Lys Lys Ala Ala Asp Leu Pro Asp
 20 25 30
 Arg Asp Thr Trp Lys Gly Arg Phe Asp Phe Leu Met Ser Cys Val Gly
 35 40 45
 Tyr Ala Ile Gly Leu Gly Asn Val Trp Arg Phe Pro Tyr Leu Cys Gly
 50 55 60
 Lys Asn Gly Gly Gly Ala Phe Leu Ile Pro Tyr Phe Leu Thr Leu Ile
 65 70 75 80
 Phe Ala Gly Val Pro Leu Phe Leu Leu Glu Cys Ser Leu Gly Gln Tyr
 85 90 95
 Thr Ser Ile Gly Gly Leu Gly Val Trp Lys Leu Ala Pro Met Phe Lys
 100 105 110
 Gly Val Gly Leu Ala Ala Ala Val Leu Ser Phe Trp Leu Asn Ile Tyr
 115 120 125
 Tyr Ile Val Ile Ile Ser Trp Ala Ile Tyr Tyr Leu Tyr Asn Ser Phe
 130 135 140
 Thr Thr Thr Leu Pro Trp Lys Gln Cys Asp Asn Pro Trp Asn Thr Asp
 145 150 155 160
 Arg Cys Phe Ser Asn Tyr Ser Met Val Asn Thr Thr Asn Met Thr Ser
 165 170 175
 Ala Val Val Glu Phe Trp Glu Arg Asn Met His Gln Met Thr Asp Gly
 180 185 190
 Leu Asp Lys Pro Gly Gln Ile Arg Trp Pro Leu Ala Ile Thr Leu Ala
 195 200 205

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Ile Ala Trp Ile Leu Val Tyr Phe Cys Ile Trp Lys Gly Val Gly Trp
 210                215                220
Thr Gly Lys Val Val Tyr Phe Ser Ala Thr Tyr Pro Tyr Ile Met Leu
225                230                235                240
Ile Ile Leu Phe Phe Arg Gly Val Thr Leu Pro Gly Ala Lys Glu Gly
                245                250                255
Ile Leu Phe Tyr Ile Thr Pro Asn Phe Arg Lys Leu Ser Asp Ser Glu
                260                265                270
Val Trp Leu Asp Ala Ala Thr Gln Ile Phe Phe Ser Tyr Gly Leu Gly
                275                280                285
Leu Gly Ser Leu Ile Ala Leu Gly Ser Tyr Asn Ser Phe His Asn Asn
290                295                300
Val Tyr Arg Asp Ser Ile Ile Val Cys Cys Ile Asn Ser Cys Thr Ser
305                310                315                320
Met Phe Ala Gly Phe Val Ile Phe Ser Ile Val Gly Phe Met Ala His
                325                330                335
Val Thr Lys Arg Ser Ile Ala Asp Val Ala Ala Ser Gly Pro Gly Leu
                340                345                350
Ala Phe Leu Ala Tyr Pro Glu Ala Val Thr Gln Leu Pro Ile Ser Pro
                355                360                365
Leu Trp Ala Ile Leu Phe Phe Ser Met Leu Leu Met Leu Gly Ile Asp
370                375                380
Ser Gln Phe Cys Thr Val Glu Gly Phe Ile Thr Ala Leu Val Asp Glu
385                390                395                400
Tyr Pro Arg Leu Leu Arg Asn Arg Arg Glu Leu Phe Ile Ala Ala Val
                405                410                415
Cys Ile Ile Ser Tyr Leu Ile Gly Leu Ser Asn Ile Thr Gln Gly Gly
                420                425                430
Ile Tyr Val Phe Lys Leu Phe Asp Tyr Tyr Ser Ala Ser Gly Met Ser
                435                440                445
Leu Leu Phe Leu Val Phe Phe Glu Cys Val Ser Ile Ser Trp Phe Tyr
450                455                460
Gly Val Asn Arg Phe Tyr Asp Asn Ile Gln Glu Met Val Gly Ser Arg
465                470                475                480
Pro Cys Ile Trp Trp Lys Leu Cys Trp Ser Phe Phe Thr Pro Ile Ile
                485                490                495
Val Ala Gly Val Phe Ile Phe Ser Ala Val Gln Met Thr Pro Leu Thr
                500                505                510
Met Gly Asn Tyr Val Phe Pro Lys Trp Gly Gln Gly Val Gly Trp Leu
                515                520                525
Met Ala Leu Ser Ser Met Val Leu Ile Pro Gly Tyr Met Ala Tyr Met
530                535                540
Phe Leu Thr Leu Lys Gly Ser Leu Lys Gln Arg Ile Gln Val Met Val
545                550                555                560
Gln Pro Ser Glu Asp Ile Val Arg Pro Glu Asn Gly Pro Glu Gln Pro
                565                570                575
Gln Ala Gly Ser Ser Thr Ser Lys Glu Ala Tyr Ile
                580                585                588

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<210> 2076
<211> 89
<212> PRT
<213> Homo sapiens

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<400> 2076
Pro Arg Arg Asp Pro Gly Arg Thr Pro Glu Leu Arg Gly Ser Ala Pro
 1                5                10                15
Arg Lys Thr Gly Ala Asn Met Pro Val Arg Arg Gly His Val Ala Pro
                20                25                30
Gln Asn Thr Phe Leu Gly Thr Ile Ile Arg Lys Phe Glu Gly Gln Asn
35                40                45

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Lys Lys Phe Ile Ile Ala Asn Ala Arg Val Gln Asn Cys Ala Ile Ile
 50 55 60
 Tyr Cys Asn Asp Gly Phe Cys Glu Met Thr Gly Phe Ser Arg Pro Asp
 65 70 75 80
 Val Met Gln Lys Pro Cys Thr Cys Asp
 85 89

<210> 2077

<211> 90

<212> PRT

<213> Homo sapiens

<400> 2077

His Ala Ser Glu Tyr Phe Phe Lys Leu Cys Ser Phe Gln Val Phe Leu
 1 5 10 15
 Ser Phe Pro Leu Ala Thr Ile Val Ile Asp Val Gly Leu Val Val Ile
 20 25 30
 Pro Leu Val Lys Ser Pro Asn Val His Tyr Val Tyr Val Leu Leu Leu
 35 40 45
 Val Leu Ser Gly Leu Leu Phe Tyr Ile Pro Leu Ile His Phe Lys Ile
 50 55 60
 Arg Leu Ala Trp Phe Glu Lys Met Thr Cys Tyr Leu Gln Leu Leu Phe
 65 70 75 80
 Asn Ile Cys Leu Pro Asp Val Ser Glu Glu
 85 90

<210> 2078

<211> 417

<212> PRT

<213> Homo sapiens

<400> 2078

Ile Gln Ala Ser Arg Ala Ser Pro Tyr Pro Arg Val Lys Val Asp Phe
 1 5 10 15
 Ala Leu Ser Cys His Glu Asp Leu Leu Ala Pro Ile Ser Glu Pro Ile
 20 25 30
 Glu Trp Lys Tyr His Ser Pro Glu Glu Glu Ile Ser Leu Gly Pro Ala
 35 40 45
 Cys Trp Leu Trp Asp Phe Leu Arg Arg Ser Gln Gln Ala Gly Phe Leu
 50 55 60
 Leu Pro Leu Ser Gly Gly Val Asp Ser Ala Ala Thr Ala Cys Leu Ile
 65 70 75 80
 Tyr Ser Met Cys Cys Gln Val Cys Glu Ala Val Arg Ser Gly Asn Glu
 85 90 95
 Glu Val Leu Ala Asp Val Arg Thr Ile Val Asn Gln Ile Ser Tyr Thr
 100 105 110
 Pro Gln Asp Pro Arg Asp Leu Cys Gly Arg Ile Leu Thr Thr Cys Tyr
 115 120 125
 Met Ala Ser Lys Asn Ser Ser Gln Glu Thr Cys Thr Arg Ala Arg Glu
 130 135 140
 Leu Ala Gln Gln Ile Gly Ser His His Ile Ser Leu Asn Ile Asp Pro
 145 150 155 160
 Ala Val Lys Ala Val Met Gly Ile Phe Ser Leu Val Thr Gly Lys Ser
 165 170 175
 Pro Leu Phe Ala Ala His Gly Gly Ser Ser Arg Glu Asn Leu Ala Leu
 180 185 190
 Gln Asn Val Gln Ala Arg Ile Arg Met Val Leu Ala Tyr Leu Phe Ala
 195 200 205

Gln Leu Ser Leu Trp Ser Arg Gly Val His Gly Gly Leu Leu Val Leu
 210 215 220
 Gly Ser Ala Asn Val Asp Glu Ser Leu Leu Gly Tyr Leu Thr Lys Tyr
 225 230 235 240
 Asp Cys Ser Ser Ala Asp Ile Asn Pro Ile Gly Gly Ile Ser Lys Thr
 245 250 255
 Asp Leu Arg Ala Phe Val Gln Phe Cys Ile Gln Arg Phe Gln Leu Pro
 260 265 270
 Ala Leu Gln Ser Ile Leu Leu Ala Pro Ala Thr Ala Glu Leu Glu Pro
 275 280 285
 Leu Ala Asp Gly Gln Val Ser Gln Thr Asp Glu Glu Asp Met Gly Met
 290 295 300
 Thr Tyr Ala Glu Leu Ser Val Tyr Gly Lys Leu Arg Lys Val Ala Lys
 305 310 315 320
 Met Gly Pro Tyr Ser Met Phe Cys Lys Leu Leu Gly Met Trp Arg His
 325 330 335
 Ile Cys Thr Pro Arg Gln Val Ala Asp Lys Val Lys Arg Phe Phe Ser
 340 345 350
 Lys Tyr Ser Met Asn Arg His Lys Met Thr Thr Leu Thr Pro Ala Tyr
 355 360 365
 His Ala Glu Asn Tyr Ser Pro Glu Asp Asn Arg Phe Asp Leu Arg Pro
 370 375 380
 Phe Leu Tyr Asn Thr Ser Trp Pro Trp Gln Phe Arg Cys Ile Glu Asn
 385 390 395 400
 Gln Val Leu Gln Leu Glu Arg Ala Glu Pro Gln Ser Leu Asp Gly Val
 405 410 415
 Asp
 417

<210> 2079
 <211> 1992
 <212> PRT
 <213> Homo sapiens

<400> 2079
 Pro Gly Cys Ala Ala Arg Leu Ser Arg Ala Arg Ala Pro Gly Pro Gly
 1 5 10 15
 Ala Ala Gly Ala Gly Arg Lys Arg Leu Ala Asp Pro Gly Pro Pro Pro
 20 25 30
 Ala Ser Arg Arg Leu Arg Ala Pro Gly Ser Arg Pro Arg Leu Ala Pro
 35 40 45
 Cys Thr Arg Arg Ala Ala Gln Pro Ala His Ala Arg Met Ala Pro Arg
 50 55 60
 Ala Ala Gly Gly Ala Pro Leu Ser Ala Arg Ala Ala Ala Ser Pro
 65 70 75 80
 Pro Pro Phe Gln Thr Pro Pro Arg Cys Pro Val Pro Leu Leu Leu Leu
 85 90 95
 Leu Leu Leu Gly Ala Ala Arg Ala Gly Ala Leu Glu Ile Gln Arg Arg
 100 105 110
 Phe Pro Ser Pro Thr Pro Thr Asn Asn Phe Ala Leu Asp Gly Ala Ala
 115 120 125
 Gly Thr Val Tyr Leu Ala Ala Val Asn Arg Leu Tyr Gln Leu Ser Gly
 130 135 140
 Ala Asn Leu Ser Leu Glu Ala Glu Ala Ala Val Gly Pro Val Pro Asp
 145 150 155 160
 Ser Pro Leu Cys His Ala Pro Gln Leu Pro Gln Ala Ser Cys Glu His
 165 170 175
 Pro Arg Arg Leu Thr Asp Asn Tyr Asn Lys Ile Leu Gln Leu Asp Pro
 180 185 190
 Gly Gln Gly Leu Val Val Val Cys Gly Ser Ile Tyr Gln Gly Phe Cys
 195 200 205

Gln Leu Arg Arg Arg Gly Asn Ile Ser Ala Val Ala Val Arg Phe Pro
 210 215 220
 Pro Ala Ala Pro Pro Ala Glu Pro Val Thr Val Phe Pro Ser Met Leu
 225 230 235 240
 Asn Val Ala Ala Asn His Pro Asn Ala Ser Thr Val Gly Leu Val Leu
 245 250 255
 Pro Pro Ala Ala Gly Ala Gly Gly Ser Arg Leu Leu Val Gly Ala Thr
 260 265 270
 Tyr Thr Gly Tyr Gly Ser Ser Phe Pro Arg Asn Arg Ser Leu Glu
 275 280 285
 Asp His Arg Phe Glu Asn Thr Pro Glu Ile Ala Ile Arg Ser Leu Asp
 290 295 300
 Thr Arg Gly Asp Leu Ala Lys Leu Phe Thr Phe Asp Leu Asn Pro Ser
 305 310 315 320
 Asp Asp Asn Ile Leu Lys Ile Lys Gln Gly Ala Lys Glu Gln His Lys
 325 330 335
 Leu Gly Phe Val Ser Ala Phe Leu His Pro Ser Asp Pro Pro Pro Gly
 340 345 350
 Ala Gln Ser Tyr Ala Tyr Leu Ala Leu Asn Ser Glu Ala Arg Ala Gly
 355 360 365
 Asp Lys Glu Ser Gln Ala Arg Ser Leu Leu Ala Arg Ile Cys Leu Pro
 370 375 380
 His Gly Ala Gly Gly Asp Ala Lys Lys Leu Thr Glu Ser Tyr Ile Gln
 385 390 395 400
 Leu Gly Leu Gln Cys Ala Gly Gly Ala Gly Arg Gly Asp Leu Tyr Ser
 405 410 415
 Arg Leu Val Ser Val Phe Pro Ala Arg Glu Arg Leu Phe Ala Val Phe
 420 425 430
 Glu Arg Pro Gln Gly Ser Pro Ala Ala Arg Ala Ala Pro Ala Ala Leu
 435 440 445
 Cys Ala Phe Arg Phe Ala Asp Val Arg Ala Ala Ile Arg Ala Ala Arg
 450 455 460
 Thr Ala Cys Phe Val Glu Pro Ala Pro Asp Val Val Ala Val Leu Asp
 465 470 475 480
 Ser Val Val Gln Gly Thr Gly Pro Ala Cys Glu Arg Lys Leu Asn Ile
 485 490 495
 Gln Leu Gln Pro Glu Gln Leu Asp Cys Gly Ala Ala His Leu Gln His
 500 505 510
 Pro Leu Ser Ile Leu Gln Pro Leu Lys Ala Thr Pro Val Phe Arg Ala
 515 520 525
 Pro Gly Leu Thr Ser Val Ala Val Ala Ser Val Asn Asn Tyr Thr Ala
 530 535 540
 Val Phe Leu Gly Thr Val Asn Gly Arg Leu Leu Lys Ile Asn Leu Asn
 545 550 555 560
 Glu Ser Met Gln Val Val Ser Arg Arg Val Val Thr Val Ala Tyr Gly
 565 570 575
 Glu Pro Val His His Val Met Gln Phe Asp Pro Ala Asp Ser Gly Tyr
 580 585 590
 Leu Tyr Leu Met Thr Ser His Gln Met Ala Arg Val Lys Val Ala Ala
 595 600 605
 Cys Asn Val His Ser Thr Cys Gly Asp Cys Val Gly Ala Ala Asp Ala
 610 615 620
 Tyr Cys Gly Trp Cys Ala Leu Glu Thr Arg Cys Thr Leu Gln Gln Asp
 625 630 635 640
 Cys Thr Asn Ser Ser Gln Gln His Phe Trp Thr Ser Ala Ser Glu Gly
 645 650 655
 Pro Ser Arg Cys Pro Ala Met Thr Val Leu Pro Ser Glu Ile Asp Val
 660 665 670
 Arg Gln Glu Tyr Pro Gly Met Ile Leu Gln Ile Ser Gly Ser Leu Pro
 675 680 685
 Ser Leu Ser Gly Met Glu Met Ala Cys Asp Tyr Gly Asn Asn Ile Arg
 690 695 700
 Thr Val Ala Arg Val Pro Gly Pro Ala Phe Gly His Gln Ile Ala Tyr
 705 710 715 720

Cys Asn Leu Leu Pro Arg Asp Gln Phe Pro Pro Phe Pro Pro Asn Gln
 725 730 735
 Asp His Val Thr Val Glu Met Ser Val Arg Val Asn Gly Arg Asn Ile
 740 745 750
 Val Lys Ala Asn Phe Thr Ile Tyr Asp Cys Ser Arg Thr Ala Gln Val
 755 760 765
 Tyr Pro His Thr Ala Cys Thr Ser Cys Leu Ser Ala Gln Trp Pro Cys
 770 775 780
 Phe Trp Cys Ser Gln Gln His Ser Cys Val Ser Asn Gln Ser Arg Cys
 785 790 795 800
 Glu Ala Ser Pro Asn Pro Thr Ser Pro Gln Asp Cys Pro Arg Thr Leu
 805 810 815
 Leu Ser Pro Leu Ala Pro Val Pro Thr Gly Gly Ser Gln Asn Ile Leu
 820 825 830
 Val Pro Leu Ala Asn Thr Ala Phe Phe Gln Gly Ala Ala Leu Glu Cys
 835 840 845
 Ser Phe Gly Leu Glu Glu Ile Phe Glu Ala Val Trp Val Asn Glu Ser
 850 855 860
 Val Val Arg Cys Asp Gln Val Val Leu His Thr Thr Arg Lys Ser Gln
 865 870 875 880
 Val Phe Pro Leu Ser Leu Gln Leu Lys Gly Arg Pro Ala Arg Phe Leu
 885 890 895
 Asp Ser Pro Glu Pro Met Thr Val Met Val Tyr Asn Cys Ala Met Gly
 900 905 910
 Ser Pro Asp Cys Ser Gln Cys Leu Gly Arg Glu Asp Leu Gly His Leu
 915 920 925
 Cys Met Trp Ser Asp Gly Cys Arg Leu Arg Gly Pro Leu Gln Pro Met
 930 935 940
 Ala Gly Thr Cys Pro Ala Pro Glu Ile Arg Ala Ile Glu Pro Leu Ser
 945 950 955 960
 Gly Pro Leu Asp Gly Gly Thr Leu Leu Thr Ile Arg Gly Arg Asn Leu
 965 970 975
 Gly Arg Arg Leu Ser Asp Val Ala His Gly Val Trp Ile Gly Gly Val
 980 985 990
 Ala Cys Glu Pro Leu Pro Asp Arg Tyr Thr Val Ser Glu Glu Ile Val
 995 1000 1005
 Cys Val Thr Gly Pro Ala Pro Gly Pro Leu Ser Gly Val Val Thr Val
 1010 1015 1020
 Asn Ala Ser Lys Glu Gly Lys Ser Arg Asp Arg Phe Ser Tyr Val Leu
 1025 1030 1035 1040
 Pro Leu Val His Ser Leu Glu Pro Thr Met Gly Pro Lys Ala Gly Gly
 1045 1050 1055
 Thr Arg Ile Thr Ile His Gly Asn Asp Leu His Val Gly Ser Glu Leu
 1060 1065 1070
 Gln Val Leu Val Asn Asp Thr Asp Pro Cys Thr Glu Leu Met Arg Thr
 1075 1080 1085
 Asp Thr Ser Ile Ala Cys Thr Met Pro Glu Gly Ala Leu Pro Ala Pro
 1090 1095 1100
 Val Pro Val Cys Val Arg Phe Glu Arg Arg Gly Cys Val His Gly Asn
 1105 1110 1115 1120
 Leu Thr Phe Trp Tyr Met Gln Asn Pro Val Ile Thr Ala Ile Ser Pro
 1125 1130 1135
 Arg Arg Ser Pro Val Ser Gly Gly Arg Thr Ile Thr Val Ala Gly Glu
 1140 1145 1150
 Arg Phe His Met Val Gln Asn Val Ser Met Ala Val His His Ile Gly
 1155 1160 1165
 Arg Glu Pro Thr Leu Cys Lys Val Leu Asn Ser Thr Leu Ile Thr Cys
 1170 1175 1180
 Pro Ser Pro Gly Ala Leu Ser Asn Ala Ser Ala Pro Val Asp Phe Phe
 1185 1190 1195 1200
 Ile Asn Gly Arg Ala Tyr Ala Asp Glu Val Ala Val Ala Glu Glu Leu
 1205 1210 1215
 Leu Asp Pro Glu Glu Ala Gln Arg Gly Ser Arg Phe Arg Leu Asp Tyr
 1220 1225 1230

Leu Pro Asn Pro Gln Phe Ser Thr Ala Lys Arg Glu Lys Trp Ile Lys
 1235 1240 1245
 His His Pro Gly Glu Pro Leu Thr Leu Val Ile His Val Ser Thr Lys
 1250 1255 1260
 Gly Ala Gly Lys Glu Gln Asp Ser Leu Gly Leu Gln Ser His Glu Tyr
 1265 1270 1275 1280
 Arg Val Lys Ile Gly Gln Val Ser Cys Asp Ile Gln Ile Val Ser Asp
 1285 1290 1295
 Arg Ile Ile His Cys Ser Val Asn Glu Ser Leu Gly Ala Ala Val Gly
 1300 1305 1310
 Gln Leu Pro Ile Thr Ile Gln Val Gly Asn Phe Asn Gln Thr Ile Ala
 1315 1320 1325
 Thr Leu Gln Leu Gly Gly Ser Glu Thr Ala Ile Ile Val Ser Ile Val
 1330 1335 1340
 Ile Cys Ser Val Leu Leu Leu Ser Val Val Ala Leu Phe Val Phe
 1345 1350 1355 1360
 Cys Thr Lys Ser Arg Arg Ala Glu Arg Tyr Trp Gln Lys Thr Leu Leu
 1365 1370 1375
 Gln Met Glu Glu Met Glu Ser Gln Ile Arg Glu Glu Ile Arg Lys Gly
 1380 1385 1390
 Phe Ala Glu Leu Gln Thr Asp Met Thr Asp Leu Thr Lys Glu Leu Asn
 1395 1400 1405
 Arg Ser Gln Gly Ile Pro Phe Leu Glu Tyr Lys His Phe Val Thr Arg
 1410 1415 1420
 Thr Phe Phe Pro Lys Cys Ser Ser Leu Tyr Glu Glu Arg Tyr Val Leu
 1425 1430 1435 1440
 Pro Ser Gln Thr Leu Asn Ser Gln Gly Ser Ser Gln Ala Gln Glu Thr
 1445 1450 1455
 His Pro Leu Leu Gly Glu Trp Lys Ile Pro Glu Ser Cys Arg Pro Asn
 1460 1465 1470
 Met Glu Glu Gly Ile Ser Leu Phe Ser Ser Leu Leu Asp Asn Lys His
 1475 1480 1485
 Phe Leu Ile Val Phe Val His Ala Leu Glu Gln Gln Lys Asp Phe Ala
 1490 1495 1500
 Val Arg Asp Arg Cys Ser Leu Ala Ser Leu Leu Thr Ile Ala Leu His
 1505 1510 1515 1520
 Gly Lys Leu Glu Tyr Tyr Thr Ser Ile Met Lys Glu Leu Leu Val Asp
 1525 1530 1535
 Leu Ile Asp Ala Ser Ala Ala Lys Asn Pro Lys Leu Met Leu Arg Arg
 1540 1545 1550
 Thr Glu Ser Val Val Glu Lys Met Leu Thr Asn Trp Met Ser Ile Cys
 1555 1560 1565
 Met Tyr Ser Cys Leu Arg Glu Thr Val Gly Glu Pro Phe Phe Leu Leu
 1570 1575 1580
 Leu Cys Ala Ile Lys Gln Gln Ile Asn Lys Gly Ser Ile Asp Ala Ile
 1585 1590 1595 1600
 Thr Gly Lys Ala Arg Tyr Thr Leu Asn Glu Glu Trp Leu Leu Arg Glu
 1605 1610 1615
 Asn Ile Glu Ala Lys Pro Arg Asn Leu Asn Val Ser Phe Gln Gly Cys
 1620 1625 1630
 Gly Met Asp Ser Leu Ser Val Arg Ala Met Asp Thr Asp Thr Leu Thr
 1635 1640 1645
 Gln Val Lys Glu Lys Ile Leu Glu Ala Phe Cys Lys Asn Val Pro Tyr
 1650 1655 1660
 Ser Gln Trp Pro Arg Ala Glu Asp Val Asp Leu Glu Trp Phe Ala Ser
 1665 1670 1675 1680
 Ser Thr Gln Ser Tyr Ile Leu Arg Asp Leu Asp Asp Thr Ser Val Val
 1685 1690 1695
 Glu Asp Gly Arg Lys Lys Leu Asn Thr Leu Ala His Tyr Lys Ile Pro
 1700 1705 1710
 Glu Gly Ala Ser Leu Ala Met Ser Leu Ile Asp Lys Lys Asp Asn Thr
 1715 1720 1725
 Leu Gly Arg Val Lys Asp Leu Asp Thr Glu Lys Tyr Phe His Leu Val
 1730 1735 1740

Leu Pro Thr Asp Glu Leu Ala Glu Pro Lys Lys Ser His Arg Gln Ser
 1745 1750 1755 1760
 His Arg Lys Lys Val Leu Pro Glu Ile Tyr Leu Thr Arg Leu Leu Ser
 1765 1770 1775
 Thr Lys Gly Thr Leu Gln Lys Phe Leu Asp Asp Leu Phe Lys Ala Ile
 1780 1785 1790
 Leu Ser Ile Arg Glu Asp Lys Pro Pro Leu Ala Val Lys Tyr Phe Phe
 1795 1800 1805
 Asp Phe Leu Glu Glu Gln Ala Glu Lys Arg Gly Ile Ser Asp Pro Asp
 1810 1815 1820
 Thr Leu His Ile Trp Lys Thr Asn Ser Leu Pro Leu Arg Phe Trp Val
 1825 1830 1835 1840
 Asn Ile Leu Lys Asn Pro Gln Phe Val Phe Asp Ile Asp Lys Thr Asp
 1845 1850 1855
 His Ile Asp Ala Cys Leu Ser Val Ile Ala Gln Ala Phe Ile Asp Ala
 1860 1865 1870
 Cys Ser Ile Ser Asp Leu Gln Leu Gly Lys Asp Ser Pro Thr Asn Lys
 1875 1880 1885
 Leu Leu Tyr Ala Lys Glu Ile Pro Glu Tyr Arg Lys Ile Val Gln Arg
 1890 1895 1900
 Tyr Tyr Lys Gln Ile Gln Asp Met Thr Pro Leu Ser Glu Gln Glu Met
 1905 1910 1915 1920
 Asn Ala His Leu Ala Glu Glu Ser Arg Lys Tyr Gln Asn Glu Phe Asn
 1925 1930 1935
 Thr Asn Val Ala Met Ala Glu Ile Tyr Lys Tyr Ala Lys Arg Tyr Arg
 1940 1945 1950
 Pro Gln Ile Met Ala Ala Leu Glu Ala Asn Pro Thr Ala Arg Arg Thr
 1955 1960 1965
 Gln Leu Gln His Lys Phe Glu Gln Val Val Ala Leu Met Glu Asp Asn
 1970 1975 1980
 Ile Tyr Glu Cys Tyr Ser Glu Ala
 1985 1990 1992

<210> 2080
 <211> 96
 <212> PRT
 <213> Homo sapiens

<400> 2080
 Gln Pro Ser Pro Leu Phe His Ser His Leu Glu Thr Leu Gln Leu Leu
 1 5 10 15
 Arg Thr Ala Gln Leu Pro Glu Gln Val Ser Trp Pro Trp Gly Gln Val
 20 25 30
 Ala Asn Gly Lys Gly Asn Gln Arg Asn Met Gly Ser Pro Gln Pro Ser
 35 40 45
 Leu Leu Ala Phe Glu Arg Asn Leu Glu Leu Gln Ile Met Gly Leu Gly
 50 55 60
 Tyr Ser Leu Leu Met Gly Lys Leu Arg Pro Arg Val Ala Lys Asp Thr
 65 70 75 80
 Leu Arg Val His Arg Asp Ser Thr Pro Ser Pro Leu Thr Leu Lys Asp
 85 90 95 96

<210> 2081
 <211> 127
 <212> PRT
 <213> Homo sapiens

<400> 2081
 Phe Leu Lys Cys Met Arg Lys Ala Phe Arg Ser Ser Lys Leu Leu Gln
 1 5 10 15
 Val Gly Tyr Thr Pro Asp Gly Lys Asp Asp Tyr Arg Trp Cys Phe Arg
 20 25 30
 Val Asp Glu Val Asn Trp Thr Thr Trp Asn Thr Asn Val Gly Ile Ile
 35 40 45
 Asn Glu Asp Pro Gly Asn Cys Glu Gly Val Lys Arg Thr Leu Ser Phe
 50 55 60
 Ser Leu Arg Ser Ser Arg Val Ser Gly Arg His Trp Lys Asn Phe Ala
 65 70 75 80
 Leu Val Pro Leu Leu Arg Glu Ala Ser Ala Arg Asp Arg Gln Ser Ala
 85 90 95
 Gln Pro Glu Glu Val Tyr Leu Arg Gln Phe Ser Gly Ser Leu Lys Pro
 100 105 110
 Glu Asp Ala Glu Val Phe Lys Ser Pro Ala Ala Ser Gly Glu Lys
 115 120 125 127

<210> 2082
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 2082
 Ala Gln Ala Glu Ser Ser Thr Val Ala Ser Pro Glu Ala Thr Ala Gly
 1 5 10 15
 Pro Leu Cys Thr Arg Ile Pro Asn Val Pro Pro Pro Thr Pro Ile Arg
 20 25 30
 Pro Pro Gly Lys Leu Gln Ala Gln Leu Pro Cys Pro Ser Pro Val Arg
 35 40 45
 Phe Thr Ser Ala Arg Ile Pro Pro Ala Ser Arg Pro Gln Thr Lys Ser
 50 55 60 64

<210> 2083
 <211> 740
 <212> PRT
 <213> Homo sapiens

<400> 2083
 Ala Ala Gly Pro Pro Gly Leu Glu Ala Glu Gly Arg Ala Pro Glu Ser
 1 5 10 15
 Ala Gly Pro Gly Pro Gly Gly Asp Ala Ala Glu Thr Pro Gly Leu Pro
 20 25 30
 Pro Ala His Ser Gly Thr Leu Met Met Ala Phe Arg Asp Val Thr Val
 35 40 45
 Gln Ile Ala Asn Gln Asn Ile Ser Val Ser Ser Ser Thr Ala Leu Ser
 50 55 60
 Val Ala Asn Cys Leu Gly Ala Gln Thr Val Gln Ala Pro Ala Glu Pro
 65 70 75 80
 Ala Ala Gly Lys Ala Glu Gln Gly Glu Thr Ser Gly Arg Glu Ala Pro
 85 90 95
 Glu Ala Pro Ala Val Gly Arg Glu Asp Ala Ser Ala Glu Asp Ser Cys
 100 105 110
 Ala Glu Ala Gly Ala Ser Gly Ala Ala Asp Gly Ala Thr Ala Pro Lys
 115 120 125

Thr Glu Glu Glu Glu Glu Glu Glu Thr Ala Glu Val Gly Arg Gly
 130 135 140
 Ala Glu Ala Glu Ala Gly Asp Leu Glu Gln Leu Asn Arg Thr Ser Thr
 145 150 155 160
 Ser Thr Lys Ser Ala Lys Ser Gly Ser Glu Ala Ser Ala Ser Ala Ser
 165 170 175
 Lys Asp Ala Leu Gln Ala Met Ile Leu Ser Leu Pro Arg Tyr His Cys
 180 185 190
 Glu Asn Pro Ala Ser Cys Lys Ser Pro Thr Leu Ser Thr Asp Thr Leu
 195 200 205
 Arg Lys Arg Leu Tyr Arg Ile Gly Leu Asn Leu Phe Asn Ile Asn Pro
 210 215 220
 Asp Lys Gly Ile Gln Phe Leu Ile Ser Arg Gly Phe Ile Pro Asp Thr
 225 230 235 240
 Pro Ile Gly Val Ala His Phe Leu Leu Gln Arg Lys Gly Leu Ser Arg
 245 250 255
 Gln Met Ile Gly Glu Phe Leu Gly Asn Ser Lys Lys Gln Phe Asn Arg
 260 265 270
 Asp Val Leu Asp Cys Val Val Asp Glu Met Asp Phe Ser Ser Met Glu
 275 280 285
 Leu Asp Glu Ala Leu Arg Lys Phe Gln Ala His Ile Arg Val Gln Gly
 290 295 300
 Glu Ala Gln Lys Val Glu Arg Leu Ile Glu Ala Phe Ser Gln Arg Tyr
 305 310 315 320
 Cys Met Cys Asn Pro Glu Val Val Gln Gln Phe His Asn Pro Asp Thr
 325 330 335
 Ile Phe Ile Leu Ala Phe Ala Ile Ile Leu Leu Asn Thr Asp Met Tyr
 340 345 350
 Ser Pro Asn Ile Lys Pro Asp Arg Lys Met Met Leu Glu Asp Phe Ile
 355 360 365
 Arg Asn Leu Arg Gly Val Asp Asp Gly Ala Asp Ile Pro Arg Glu Leu
 370 375 380
 Val Val Gly Ile Tyr Glu Arg Ile Gln Gln Lys Glu Leu Lys Ser Asn
 385 390 395 400
 Glu Asp His Val Thr Tyr Val Thr Lys Val Glu Lys Ser Ile Val Gly
 405 410 415
 Met Lys Thr Val Leu Ser Val Pro His Arg Arg Leu Val Cys Cys Ser
 420 425 430
 Arg Leu Phe Glu Val Thr Asp Val Asn Lys Leu Gln Lys Gln Ala Ala
 435 440 445
 His Gln Arg Glu Val Phe Leu Phe Asn Asp Leu Leu Val Ile Leu Lys
 450 455 460
 Leu Cys Pro Lys Lys Lys Ser Ser Ser Thr Tyr Thr Phe Cys Lys Ser
 465 470 475 480
 Val Gly Leu Leu Gly Met Gln Phe Gln Leu Phe Glu Asn Glu Tyr Tyr
 485 490 495
 Ser His Gly Ile Thr Leu Val Thr Pro Leu Ser Gly Ser Glu Lys Lys
 500 505 510
 Gln Val Leu His Phe Cys Ala Leu Gly Ser Asp Glu Met Gln Lys Phe
 515 520 525
 Val Glu Asp Leu Lys Glu Ser Ile Ala Glu Val Thr Glu Leu Glu Gln
 530 535 540
 Ile Arg Ile Glu Trp Glu Leu Glu Lys Gln Gln Gly Thr Lys Thr Leu
 545 550 555 560
 Ser Phe Lys Pro Cys Gly Ala Gln Gly Asp Pro Gln Ser Lys Gln Gly
 565 570 575
 Ser Pro Thr Ala Lys Arg Glu Ala Ala Leu Arg Glu Arg Pro Ala Glu
 580 585 590
 Ser Thr Val Glu Val Ser Ile His Asn Arg Leu Gln Thr Ser Gln His
 595 600 605
 Asn Ser Gly Leu Gly Ala Glu Arg Gly Ala Pro Val Pro Pro Asp
 610 615 620
 Leu Gln Pro Ser Pro Pro Arg Gln Gln Thr Pro Pro Leu Pro Pro Pro
 625 630 635 640

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Pro Pro Thr Pro Pro Gly Thr Leu Val Gln Cys Gln Gln Ile Val Lys
      645      650      655
Val Ile Val Leu Asp Lys Pro Cys Leu Ala Arg Met Glu Pro Leu Leu
      660      665      670
Ser Gln Ala Leu Ser Cys Tyr Thr Ser Ser Ser Ser Asp Ser Cys Gly
      675      680      685
Ser Thr Pro Leu Gly Gly Pro Gly Ser Pro Val Lys Val Thr His Gln
      690      695      700
Pro Pro Leu Pro Pro Pro Pro Pro Tyr Asn His Pro His Gln Phe
705      710      715      720
Cys Pro Pro Gly Ser Leu Leu His Gly His Arg Tyr Ser Ser Gly Ser
      725      730      735
Arg Ser Leu Val
      740

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<210> 2084
<211> 118
<212> PRT
<213> Homo sapiens

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<400> 2084
Ser Ser Val Met Gly Asp Leu Val Gly Gln Gly Leu Glu Glu Gln Ile
 1      5      10      15
Val Ala Arg Asp Glu Asn Ser Trp Leu Ile Asp Gly Gly Thr Pro Ile
      20      25      30
Asp Asp Val Met Arg Val Leu Asp Ile Asp Glu Phe Pro Gln Ser Gly
      35      40      45
Asn Tyr Glu Thr Ile Gly Gly Phe Met Met Phe Met Leu Arg Lys Ile
      50      55      60
Pro Lys Arg Thr Asp Ser Val Lys Phe Ala Gly Tyr Lys Phe Glu Val
      65      70      75      80
Val Asp Ile Asp Asn Tyr Arg Ile Asp Gln Leu Leu Val Thr Arg Ile
      85      90      95
Asp Ser Lys Ala Thr Ala Leu Ser Pro Lys Leu Pro Asp Ala Lys Asp
      100      105      110
Lys Glu Glu Ser Val Ala
      115      118

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<210> 2085
<211> 419
<212> PRT
<213> Homo sapiens

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<400> 2085
Met Val Phe Ser Ala Val Leu Thr Ala Phe His Thr Gly Thr Ser Asn
 1      5      10      15
Thr Thr Phe Val Val Tyr Glu Asn Thr Tyr Met Asn Ile Thr Leu Pro
      20      25      30
Pro Pro Phe Gln His Pro Asp Leu Ser Pro Leu Leu Arg Tyr Ser Phe
      35      40      45
Glu Thr Met Ala Pro Thr Gly Leu Ser Ser Leu Thr Val Asn Ser Thr
      50      55      60
Ala Val Pro Thr Thr Pro Ala Ala Phe Lys Ser Leu Asn Leu Pro Leu
      65      70      75      80
Gln Ile Thr Leu Ser Ala Ile Met Ile Phe Ile Leu Phe Val Ser Phe
      85      90      95
Leu Gly Asn Leu Val Val Cys Leu Met Val Tyr Gln Lys Ala Ala Met
      100      105      110

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Arg Ser Ala Ile Asn Ile Leu Leu Ala Ser Leu Ala Phe Ala Asp Met
      115      120      125
Leu Leu Ala Val Leu Asn Met Pro Phe Ala Leu Val Thr Ile Leu Thr
      130      135      140
Thr Arg Trp Ile Phe Gly Lys Phe Phe Cys Arg Val Ser Ala Met Phe
145      150      155      160
Phe Trp Leu Phe Val Ile Glu Gly Val Ala Ile Leu Leu Ile Ile Ser
      165      170      175
Ile Asp Arg Phe Leu Ile Ile Val Gln Arg Gln Asp Lys Leu Asn Pro
      180      185      190
Tyr Arg Ala Lys Val Leu Ile Ala Val Ser Trp Ala Thr Ser Phe Cys
      195      200      205
Val Ala Phe Pro Leu Ala Val Gly Asn Pro Asp Leu Gln Ile Pro Ser
      210      215      220
Arg Ala Pro Gln Cys Val Phe Gly Tyr Thr Thr Asn Pro Gly Tyr Gln
225      230      235      240
Ala Tyr Val Ile Leu Ile Ser Leu Ile Ser Phe Phe Ile Pro Phe Leu
      245      250      255
Val Ile Leu Tyr Ser Phe Met Gly Ile Leu Asn Thr Leu Arg His Asn
      260      265      270
Ala Leu Arg Ile His Ser Tyr Pro Glu Gly Ile Cys Leu Ser Gln Ala
      275      280      285
Ser Lys Leu Gly Leu Met Gly Leu Gln Arg Pro Phe Gln Met Ser Ile
      290      295      300
Asp Met Gly Phe Lys Thr Arg Ala Phe Thr Thr Ile Leu Ile Leu Phe
305      310      315      320
Ala Val Phe Ile Val Cys Trp Ala Pro Phe Thr Thr Tyr Ser Leu Val
      325      330      335
Ala Thr Phe Ser Lys His Phe Tyr Tyr Gln His Asn Phe Phe Glu Ile
      340      345      350
Ser Thr Trp Leu Leu Trp Leu Cys Tyr Leu Lys Ser Ala Leu Asn Pro
      355      360      365
Leu Ile Tyr Tyr Trp Arg Ile Lys Lys Phe His Asp Ala Cys Leu Asp
      370      375      380
Met Met Pro Lys Ser Phe Lys Phe Leu Pro Gln Leu Pro Gly His Thr
385      390      395      400
Lys Arg Arg Ile Arg Pro Ser Ala Val Tyr Val Cys Gly Glu His Arg
      405      410      415
Thr Val Val
      419

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<210> 2086
<211> 88
<212> PRT
<213> Homo sapiens

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<400> 2086
Phe Thr Arg Ser Asp Glu Leu Ala Arg His Tyr Arg Thr His Thr Gly
1      5      10      15
Glu Lys Arg Phe Ser Cys Pro Leu Cys Pro Lys Gln Phe Ser Arg Ser
      20      25      30
Asp His Leu Thr Lys His Ala Arg Arg His Pro Thr Tyr His Pro Asp
      35      40      45
Met Ile Glu Tyr Arg Gly Arg Arg Thr Pro Arg Ile Asp Pro Pro
      50      55      60
Leu Thr Ser Glu Val Glu Ser Ser Ala Ser Gly Ser Gly Pro Gly Pro
      65      70      75      80
Ala Pro Ser Phe Thr Thr Cys Leu
      85      88

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<210> 2087
 <211> 173
 <212> PRT
 <213> Homo sapiens

<400> 2087
 Leu Thr Trp Pro Gln Leu Phe Leu Glu Thr Leu Pro Glu Leu Leu His
 1 5 10 15
 Met Ser Arg Pro Ala Glu Asp Gly Pro Ser Pro Gly Ala Leu Val Arg
 20 25 30
 Arg Ser Ser Ser Leu Gly Tyr Ile Ser Lys Ala Glu Glu Tyr Phe Leu
 35 40 45
 Leu Lys Ser Arg Ser Asp Leu Met Phe Glu Lys Gln Ser Glu Arg His
 50 55 60
 Gly Leu Ala Arg Arg Leu Thr Thr Ala Arg Arg Pro Pro Ala Ser Ser
 65 70 75 80
 Glu Gln Ala Gln Gln Glu Leu Phe Asn Glu Leu Lys Pro Ala Val Asp
 85 90 95
 Gly Ala Asn Phe Ile Val Asn His Met Arg Asp Gln Asn Asn Tyr Asn
 100 105 110
 Glu Glu Lys Asp Ser Trp Asn Arg Val Ala Arg Thr Val Asp Arg Leu
 115 120 125
 Cys Leu Phe Val Val Thr Pro Val Met Val Val Gly Thr Ala Trp Ile
 130 135 140
 Phe Leu Gln Gly Val Tyr Asn Gln Pro Pro Pro Gln Pro Phe Pro Gly
 145 150 155 160
 Asp Pro Tyr Ser Tyr Asn Val Gln Asp Lys Arg Phe Ile
 165 170 173

<210> 2088
 <211> 386
 <212> PRT
 <213> Homo sapiens

<400> 2088
 Leu Val Val Thr Ala Ile Thr Ala Ile Leu Ala Phe Pro Asn Glu Tyr
 1 5 10 15
 Thr Arg Met Ser Thr Ser Glu Leu Ile Ser Glu Leu Phe Asn Asp Cys
 20 25 30
 Gly Leu Leu Asp Ser Ser Lys Leu Cys Asp Tyr Glu Asn Arg Phe Asn
 35 40 45
 Thr Ser Lys Gly Gly Glu Leu Pro Asp Arg Pro Ala Gly Val Gly Val
 50 55 60
 Tyr Ser Ala Met Trp Gln Leu Ala Leu Thr Leu Ile Leu Lys Ile Val
 65 70 75 80
 Ile Thr Ile Phe Thr Phe Gly Met Lys Ile Pro Ser Gly Leu Phe Ile
 85 90 95
 Pro Ser Met Ala Val Gly Ala Ile Ala Gly Arg Leu Leu Gly Val Gly
 100 105 110
 Met Glu Gln Leu Ala Tyr Tyr His Gln Glu Trp Thr Val Phe Asn Ser
 115 120 125
 Trp Cys Ser Gln Gly Ala Asp Cys Ile Thr Pro Gly Leu Tyr Ala Met
 130 135 140
 Val Gly Ala Ala Ala Cys Leu Gly Gly Val Thr Arg Met Thr Val Ser
 145 150 155 160
 Leu Val Val Ile Met Phe Glu Leu Thr Gly Gly Leu Glu Tyr Ile Val
 165 170 175
 Pro Leu Met Ala Ala Ala Met Thr Ser Lys Trp Val Ala Asp Ala Leu
 180 185 190

Gly Arg Glu Gly Ile Tyr Asp Ala His Ile Arg Leu Asn Gly Tyr Pro
 195 200 205
 Phe Leu Glu Ala Lys Glu Glu Phe Ala His Lys Thr Leu Ala Met Asp
 210 215 220
 Val Met Lys Pro Arg Arg Asn Asp Pro Leu Leu Thr Val Leu Thr Gln
 225 230 235 240
 Asp Ser Met Thr Val Glu Asp Val Glu Thr Ile Ile Ser Glu Thr Thr
 245 250 255
 Tyr Ser Gly Phe Pro Val Val Val Ser Arg Glu Ser Gln Arg Leu Val
 260 265 270
 Gly Phe Val Leu Arg Arg Asp Leu Ile Ile Ser Ile Glu Asn Ala Arg
 275 280 285
 Lys Lys Gln Asp Gly Val Val Ser Thr Ser Ile Ile Tyr Phe Thr Glu
 290 295 300
 His Ser Pro Pro Leu Pro Pro Tyr Thr Pro Pro Thr Leu Lys Leu Arg
 305 310 315 320
 Asn Ile Leu Asp Leu Ser Pro Phe Thr Val Thr Asp Leu Thr Pro Met
 325 330 335
 Glu Ile Val Val Asp Ile Phe Arg Lys Leu Gly Leu Arg Gln Cys Leu
 340 345 350
 Val Thr His Asn Gly Arg Leu Leu Gly Ile Ile Thr Lys Lys Asp Val
 355 360 365
 Leu Lys His Ile Ala Gln Met Ala Asn Gln Asp Pro Asp Ser Ile Leu
 370 375 380
 Phe Asn
 385 386

<210> 2089
 <211> 304
 <212> PRT
 <213> Homo sapiens

<400> 2089
 Thr Leu Gln Leu Ala Ala Ser Val Pro Phe Phe Ala Ile Ser Leu Ile
 1 5 10 15
 Ser Trp Trp Leu Pro Glu Ser Ala Arg Trp Leu Ile Ile Asn Gly Lys
 20 25 30
 Pro Asp Gln Ala Leu Gln Glu Leu Arg Lys Val Ala Arg Ile Asn Gly
 35 40 45
 His Lys Glu Ala Lys Asn Leu Thr Ile Glu Val Leu Met Ser Ser Val
 50 55 60
 Lys Glu Glu Val Ala Ser Ala Lys Glu Pro Arg Ser Val Leu Asp Leu
 65 70 75 80
 Phe Cys Val Pro Val Leu Arg Trp Arg Ser Cys Ala Met Leu Val Val
 85 90 95
 Asn Phe Ser Leu Leu Ile Ser Tyr Tyr Gly Leu Val Phe Asp Leu Gln
 100 105 110
 Ser Leu Gly Arg Asp Ile Phe Leu Leu Gln Ala Leu Phe Gly Ala Val
 115 120 125
 Asp Phe Leu Gly Arg Ala Thr Thr Ala Leu Leu Leu Ser Phe Leu Gly
 130 135 140
 Arg Arg Thr Ile Gln Ala Gly Ser Gln Ala Met Ala Gly Leu Ala Ile
 145 150 155 160
 Leu Ala Asn Met Leu Val Pro Gln Asp Leu Gln Thr Leu Arg Val Val
 165 170 175
 Phe Ala Val Leu Gly Lys Gly Cys Phe Gly Ile Ser Leu Thr Cys Leu
 180 185 190
 Thr Ile Tyr Lys Ala Glu Leu Phe Pro Thr Pro Val Arg Met Thr Ala
 195 200 205
 Asp Gly Ile Leu His Thr Val Gly Arg Leu Gly Ala Met Met Gly Pro
 210 215 220


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Leu Ile Leu Met Ser Arg Gln Ala Leu Pro Leu Leu Pro Pro Leu Leu
225                230                235                240
Tyr Gly Val Ile Ser Ile Ala Ser Ser Leu Val Val Leu Phe Phe Leu
                245                250                255
Pro Glu Thr Gln Gly Leu Pro Leu Pro Asp Thr Ile Gln Asp Leu Glu
                260                265                270
Ser Gln Lys Ser Thr Ala Ala Gln Gly Asn Arg Gln Glu Ala Phe Thr
                275                280                285
Val Glu Ser Thr Ser Leu Leu Glu Ile Val Ala Leu His Gly Ala Leu
290                295                300                304

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<210> 2090
 <211> 141
 <212> PRT
 <213> Homo sapiens

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<400> 2090
Arg Pro Ile Lys Thr Leu Gly Ile Gly Phe His Phe Ser Val Asp Gly
1          5          10          15
Val His Phe Leu Thr Gln Arg Glu Val Gln Asn Leu Trp Lys Glu Asn
20        25        30
Leu Ile Ile Leu Asp Thr Ala Lys Lys His Gly Tyr Glu Val Val Asp
35        40        45
Thr Phe Thr Ile Thr Met Gly Arg Tyr Lys Glu Phe Leu Gln Gly Lys
50        55        60
Cys Gly Cys His Phe His Glu Val Val Lys Ser Lys Leu Ser Lys Glu
65        70        75        80
Tyr Asn Phe Ile Lys Met Lys Arg Ser Arg Asn His Ile Met Gly Arg
85        90        95
Tyr Phe Ser Asn Gln Ser Lys Leu Gln Gln Gly Thr Val Thr Asn Phe
100       105       110
Arg Ser Pro Tyr His Val Arg Gly Pro Ile Asn Gln Val Cys Ser Glu
115       120       125
Ile Leu Leu Ser Arg Met Cys Ala Asn Lys Arg Thr Met
130       135       140 141

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<210> 2091
 <211> 136
 <212> PRT
 <213> Homo sapiens

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<400> 2091
Arg Met Pro Glu Ser Thr Leu Leu Ile Ile Cys Glu Asn Gly Tyr Ile
1          5          10          15
Leu Glu Ala Pro Leu Pro Thr Ile Lys Gln Glu Glu Asp Asp His Asp
20        25        30
Val Val Ser Tyr Glu Ile Lys Asp Met Cys Ile Lys Cys Phe His Phe
35        40        45
Ser Ser Val Lys Ser Lys Ile Leu Arg Leu Ile Glu Ile Glu Lys Arg
50        55        60
Glu Arg Gln Arg Glu Leu Lys Glu Lys Ile Arg Glu Glu Arg Arg Asn
65        70        75        80
Lys Leu Ala Ala Glu Met Gly Glu Asp Gly Glu Lys Glu Phe Gln Glu
85        90        95
Glu Glu Glu Glu Lys Glu Glu Glu Glu Glu Glu Glu Pro Leu Pro
100       105       110

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Glu Ile Phe Ile Pro Ser Thr Pro Ser Pro Ile Leu Cys Gly Phe Tyr
 115 120 125
 Ser Glu Pro Gly Lys Phe Trp Val
 130 135 136

<210> 2092
 <211> 160
 <212> PRT
 <213> Homo sapiens

<400> 2092
 Met Gly Cys Arg Leu Leu Cys Cys Val Val Phe Cys Leu Leu Gln Ala
 1 5 10 15
 Gly Pro Leu Asp Thr Ala Val Ser Gln Thr Pro Lys Tyr Leu Val Thr
 20 25 30
 Gln Met Gly Asn Asp Lys Ser Ile Lys Cys Glu Gln Asn Leu Gly His
 35 40 45
 Asp Thr Met Tyr Trp Tyr Lys Gln Asp Ser Lys Lys Phe Leu Lys Ile
 50 55 60
 Met Phe Ser Tyr Asn Asn Lys Glu Leu Ile Ile Asn Glu Thr Val Pro
 65 70 75 80
 Asn Arg Phe Ser Pro Lys Ser Pro Asp Lys Ala His Leu Asn Leu His
 85 90 95
 Ile Asn Ser Leu Glu Leu Gly Asp Ser Ala Val Tyr Phe Cys Ala Ser
 100 105 110
 Ser Gln Asp Thr Ala Leu Gln Ser His Cys Ile Pro Val His Lys Pro
 115 120 125
 Pro Gly Ser Ala Arg Lys Leu Gln Gly Ser Val Cys Thr Gln
 130 135 140
 Gly Ser Ser Leu His Ser Leu Met Ala Ser Asp Gly Val Pro Val Cys
 145 150 155 160

<210> 2093
 <211> 522
 <212> PRT
 <213> Homo sapiens

<400> 2093
 Met Asn Ser Phe Phe Gly Thr Pro Ala Ala Ser Trp Cys Leu Leu Glu
 1 5 10 15
 Ser Asp Val Ser Ser Ala Pro Asp Lys Glu Ala Gly Arg Glu Arg Arg
 20 25 30
 Ala Leu Ser Val Gln Gln Arg Gly Gly Pro Ala Trp Ser Gly Ser Leu
 35 40 45
 Glu Trp Ser Arg Gln Ser Ala Gly Asp Arg Arg Arg Leu Gly Leu Ser
 50 55 60
 Arg Gln Thr Ala Lys Ser Ser Trp Ser Arg Ser Arg Asp Arg Thr Cys
 65 70 75 80
 Cys Cys Arg Arg Ala Trp Trp Ile Leu Val Pro Ala Ala Asp Arg Ala
 85 90 95
 Arg Arg Glu Arg Phe Ile Met Asn Glu Lys Trp Asp Thr Asn Ser Ser
 100 105 110
 Glu Asn Trp His Pro Ile Trp Asn Val Asn Asp Thr Lys His His Leu
 115 120 125
 Tyr Ser Asp Ile Asn Ile Thr Tyr Val Asn Tyr Tyr Leu His Gln Pro
 130 135 140

Gln Val Ala Ala Ile Phe Ile Ile Ser Tyr Phe Leu Ile Phe Phe Leu
 145 150 155 160
 Cys Met Met Gly Asn Thr Val Val Cys Phe Ile Val Met Arg Asn Lys
 165 170 175
 His Met His Thr Val Thr Asn Leu Phe Ile Leu Asn Leu Ala Ile Ser
 180 185 190
 Asp Leu Leu Val Gly Ile Phe Cys Met Pro Ile Thr Leu Leu Asp Asn
 195 200 205
 Ile Ile Ala Gly Trp Pro Phe Gly Asn Thr Met Cys Lys Ile Ser Gly
 210 215 220
 Leu Val Gln Gly Ile Ser Val Ala Ala Ser Val Phe Thr Leu Val Ala
 225 230 235 240
 Ile Ala Val Asp Arg Phe Gln Cys Val Val Tyr Pro Phe Lys Pro Lys
 245 250 255
 Leu Thr Ile Lys Thr Ala Phe Val Ile Ile Met Ile Ile Trp Val Leu
 260 265 270
 Ala Ile Thr Ile Met Ser Pro Ser Ala Val Met Leu His Val Gln Glu
 275 280 285
 Glu Lys Tyr Tyr Arg Val Arg Leu Asn Ser Gln Asn Lys Thr Ser Pro
 290 295 300
 Val Tyr Trp Cys Arg Glu Asp Trp Pro Asn Gln Glu Met Arg Lys Ile
 305 310 315 320
 Tyr Thr Thr Val Leu Phe Ala Asn Ile Tyr Leu Ala Pro Leu Ser Leu
 325 330 335
 Ile Val Ile Met Tyr Gly Arg Ile Gly Ile Ser Leu Phe Arg Ala Ala
 340 345 350
 Val Pro His Thr Gly Arg Lys Asn Gln Glu Gln Trp His Val Val Ser
 355 360 365
 Arg Lys Lys Gln Lys Ile Ile Lys Met Leu Leu Ile Val Ala Leu Leu
 370 375 380
 Phe Ile Leu Ser Trp Leu Pro Leu Trp Thr Leu Met Met Leu Ser Asp
 385 390 395 400
 Tyr Ala Asp Leu Ser Pro Asn Glu Leu Gln Ile Ile Asn Ile Tyr Ile
 405 410 415
 Tyr Pro Phe Ala His Trp Leu Ala Phe Gly Asn Ser Ser Val Asn Pro
 420 425 430
 Ile Ile Tyr Gly Phe Phe Asn Glu Asn Phe Arg Arg Gly Phe Gln Glu
 435 440 445
 Ala Phe Gln Leu Gln Leu Cys Gln Lys Arg Ala Lys Pro Met Glu Ala
 450 455 460
 Tyr Ala Leu Lys Ala Lys Ser His Val Leu Ile Asn Thr Ser Asn Gln
 465 470 475 480
 Leu Val Gln Glu Ser Thr Phe Gln Asn Pro His Gly Glu Thr Leu Leu
 485 490 495
 Tyr Arg Lys Ser Ala Glu Lys Pro Gln Gln Glu Leu Val Met Glu Glu
 500 505 510
 Leu Lys Glu Thr Thr Asn Ser Ser Glu Ile
 515 520 522

<210> 2094

<211> 59

<212> PRT

<213> Homo sapiens

<400> 2094

Ser His Val Cys Val Ser His Tyr Ala Gly Ser Ser Gly Cys Pro Ala
 1 5 10 15
 Gly Ala Gly Ala Gly Ala Val Ala Leu Gly Ile Ser Ala Val Ala Leu
 20 25 30
 Tyr Asp Tyr Gln Gly Gly Arg Leu Gly Val Ala Arg Gly Ala Trp Tyr
 35 40 45

Met Glu Ala Pro Asp Ile Arg Gln Gly Asp Met
 50 55 59

<210> 2095
 <211> 147
 <212> PRT
 <213> Homo sapiens

<400> 2095
 Gly Ala Pro His Thr Asp Trp Ala Trp Ala Pro Thr Pro Met Ser Gly
 1 5 10 15
 Leu Gly Ser Gly Arg Gly Arg Gln Gly Thr Leu Ala Ser Ser Pro Leu
 20 25 30
 Ser Leu Pro Leu Leu Leu Ala Gly Val Thr Gly Ile Leu Ala Thr Glu
 35 40 45
 Leu Phe Asp Gln Met Ala Arg Pro Ala Ala Cys Met Val Cys Gly Ala
 50 55 60
 Leu Met Trp Ile Met Leu Ile Leu Val Gly Leu Gly Phe Pro Phe Ile
 65 70 75 80
 Met Glu Ala Leu Ser His Phe Leu Tyr Val Pro Phe Leu Gly Val Cys
 85 90 95
 Val Cys Gly Ala Ile Tyr Thr Gly Leu Phe Leu Pro Glu Thr Lys Gly
 100 105 110
 Lys Thr Phe Gln Glu Ile Ser Lys Glu Leu His Arg Leu Asn Phe Pro
 115 120 125
 Arg Arg Ala Gln Gly Pro Thr Trp Arg Ser Leu Glu Val Ile Gln Ser
 130 135 140
 Thr Glu Leu
 145 147

<210> 2096
 <211> 446
 <212> PRT
 <213> Homo sapiens

<400> 2096
 Ala Gln Thr Ala Arg Arg Ile Ile Gly Leu Glu Leu Asp Thr Glu Gly
 1 5 10 15
 His Arg Leu Phe Val Ala Phe Ser Gly Cys Ile Val Tyr Leu Pro Leu
 20 25 30
 Ser Arg Cys Ala Arg His Gly Ala Cys Gln Arg Ser Cys Leu Ala Ser
 35 40 45
 Gln Asp Pro Tyr Cys Gly Trp His Ser Ser Arg Gly Cys Val Asp Ile
 50 55 60
 Arg Gly Ser Gly Gly Thr Asp Val Asp Gln Ala Gly Asn Gln Glu Ser
 65 70 75 80
 Met Glu His Gly Asp Cys Gln Asp Gly Ala Thr Gly Ser Gln Ser Gly
 85 90 95
 Pro Gly Asp Ser Ala Tyr Gly Val Arg Arg Asp Leu Pro Pro Ala Ser
 100 105 110
 Ala Ser Arg Ser Val Pro Ile Pro Leu Leu Ala Ser Val Ala Ala
 115 120 125
 Ala Phe Ala Leu Gly Ala Ser Val Ser Gly Leu Leu Val Ser Cys Ala
 130 135 140
 Cys Arg Arg Ala His Arg Arg Gly Lys Asp Ile Glu Thr Pro Gly
 145 150 155 160
 Leu Pro Arg Pro Leu Ser Leu Arg Ser Leu Ala Arg Leu His Gly Gly
 165 170 175

Gly Pro Glu Pro Pro Pro Pro Ser Lys Asp Gly Asp Ala Val Gln Thr
 180 185 190
 Pro Gln Leu Tyr Thr Thr Phe Leu Pro Pro Glu Gly Val Pro Pro
 195 200 205
 Pro Glu Leu Ala Cys Leu Pro Thr Pro Glu Ser Thr Pro Glu Leu Pro
 210 215 220
 Val Lys His Leu Arg Ala Ala Gly Asp Pro Trp Glu Trp Asn Gln Asn
 225 230 235 240
 Arg Asn Asn Ala Lys Glu Gly Pro Gly Arg Ser Arg Gly Gly His Ala
 245 250 255
 Ala Gly Gly Pro Ala Pro Arg Val Leu Val Arg Pro Pro Pro Gly
 260 265 270
 Cys Pro Gly Gln Ala Val Glu Val Thr Thr Leu Glu Glu Leu Leu Arg
 275 280 285
 Tyr Leu His Gly Pro Gln Pro Pro Arg Lys Gly Ala Glu Pro Pro Ala
 290 295 300
 Pro Leu Thr Ser Arg Ala Leu Pro Pro Glu Pro Ala Pro Ala Leu Leu
 305 310 315 320
 Gly Gly Pro Ser Pro Arg Pro His Glu Cys Ala Ser Pro Leu Arg Leu
 325 330 335
 Asp Val Pro Pro Glu Gly Arg Cys Ala Ser Ala Pro Ala Arg Pro Ala
 340 345 350
 Leu Ser Ala Pro Ala Pro Arg Leu Gly Val Gly Gly Gly Arg Arg Leu
 355 360 365
 Pro Phe Ser Gly His Arg Ala Pro Pro Ala Leu Leu Thr Arg Val Pro
 370 375 380
 Ser Gly Gly Pro Ser Arg Tyr Ser Gly Gly Pro Gly Lys His Leu Leu
 385 390 395 400
 Tyr Leu Gly Arg Pro Glu Gly Tyr Arg Gly Arg Ala Leu Lys Arg Val
 405 410 415
 Asp Val Glu Lys Pro Gln Leu Ser Leu Lys Pro Pro Leu Val Gly Pro
 420 425 430
 Ser Ser Arg Gln Ala Val Pro Asn Gly Gly Arg Phe Asn Phe
 435 440 445 446

<210> 2097

<211> 250

<212> PRT

<213> Homo sapiens

<400> 2097

Asp His Ala Ser Leu Pro Cys Ser Trp Asn His Arg Phe Asp Val Glu
 1 5 10 15
 Thr Arg His Val Phe Ile Gly Asp His Ser Gly Gln Val Thr Ile Leu
 20 25 30
 Lys Leu Glu Gln Glu Asn Cys Thr Leu Val Thr Thr Phe Arg Gly His
 35 40 45
 Thr Gly Gly Val Thr Ala Leu Cys Trp Asp Pro Val Gln Arg Val Leu
 50 55 60
 Phe Ser Gly Ser Ser Asp His Ser Val Ile Met Trp Asp Ile Gly Gly
 65 70 75 80
 Arg Lys Gly Thr Ala Ile Glu Leu Gln Gly His Asn Asp Arg Val Gln
 85 90 95
 Ala Leu Ser Tyr Ala Gln His Thr Arg Gln Leu Ile Ser Cys Gly Gly
 100 105 110
 Asp Gly Gly Ile Val Val Trp Asn Met Asp Val Glu Arg Gln Glu Thr
 115 120 125
 Pro Glu Trp Leu Asp Ser Asp Ser Cys Gln Lys Cys Asp Gln Pro Phe
 130 135 140
 Phe Trp Asn Phe Lys Gln Met Trp Asp Ser Lys Lys Ile Gly Leu Arg
 145 150 155 160

Gln His His Cys Arg Lys Cys Gly Lys Ala Val Cys Gly Lys Cys Ser
 165 170 175
 Ser Lys Arg Ser Ile Pro Leu Met Gly Phe Glu Phe Glu Val Arg
 180 185 190
 Val Cys Asp Ser Cys His Glu Ala Ile Thr Asp Glu Glu Arg Ala Pro
 195 200 205
 Thr Ala Thr Phe His Asp Ser Lys His Asn Ile Val His Val His Phe
 210 215 220
 Asp Ala Thr Arg Gly Trp Leu Leu Thr Ser Gly Thr Asp Lys Val Ile
 225 230 235 240
 Lys Leu Trp Asp Met Thr Pro Val Val Ser
 245 250

<210> 2098
 <211> 248
 <212> PRT
 <213> Homo sapiens

<400> 2098
 Ala Met Val Phe Gly Gly Val Val Pro Tyr Val Pro Gln Tyr Arg Asp
 1 5 10 15
 Ile Arg Arg Thr Gln Asn Ala Asp Gly Phe Ser Thr Tyr Val Cys Leu
 20 25 30
 Val Leu Leu Val Ala Asn Ile Leu Arg Ile Leu Phe Trp Phe Gly Arg
 35 40 45
 Arg Phe Glu Ser Pro Leu Leu Trp Gln Ser Ala Ile Met Ile Leu Thr
 50 55 60
 Met Leu Leu Met Leu Lys Leu Cys Thr Glu Val Arg Val Ala Asn Glu
 65 70 75 80
 Leu Asn Ala Arg Arg Arg Ser Phe Thr Ala Ala Asp Ser Lys Asp Glu
 85 90 95
 Glu Val Lys Val Ala Pro Arg Arg Ser Phe Leu Asp Phe Asp Pro His
 100 105 110
 His Phe Trp Gln Trp Ser Ser Phe Ser Asp Tyr Val Gln Cys Val Leu
 115 120 125
 Ala Phe Thr Gly Val Ala Gly Tyr Ile Thr Tyr Leu Ser Ile Asp Ser
 130 135 140
 Ala Leu Phe Val Glu Thr Leu Gly Phe Leu Ala Val Leu Thr Glu Ala
 145 150 155 160
 Met Leu Gly Val Pro Gln Leu Tyr Arg Asn His Arg His Gln Ser Thr
 165 170 175
 Glu Gly Met Ser Ile Lys Met Val Leu Met Trp Thr Ser Gly Asp Ala
 180 185 190
 Phe Lys Thr Ala Tyr Phe Leu Leu Lys Gly Ala Pro Leu Gln Phe Ser
 195 200 205
 Val Cys Gly Leu Leu Gln Val Leu Val Asp Leu Ala Ile Leu Gly Gln
 210 215 220
 Ala Tyr Ala Phe Ala Arg His Pro Gln Lys Pro Ala Pro His Ala Val
 225 230 235 240
 His Pro Thr Gly Thr Lys Ala Leu
 245 248

<210> 2099
 <211> 148
 <212> PRT
 <213> Homo sapiens

<400> 2099

Gly Arg Pro Asp Arg Ser Glu Leu Val Arg Met His Ile Leu Glu Glu
 1 5 10 15
 Thr Phe Ala Glu Pro Ser Leu Gln Ala Thr Gln Met Lys Leu Lys Arg
 20 25 30
 Ala Arg Leu Ala Asp Asp Leu Asn Glu Lys Ile Ala Gln Arg Pro Gly
 35 40 45
 Pro Met Glu Leu Val Glu Lys Asn Ile Leu Pro Val Asp Ser Ser Val
 50 55 60
 Lys Glu Ala Ile Ile Gly Val Gly Lys Glu Asp Tyr Pro His Thr Gln
 65 70 75 80
 Gly Asp Phe Ser Phe Asp Glu Asp Ser Ser Asp Ala Leu Ser Pro Asp
 85 90 95
 Gln Pro Ala Ser Gln Glu Ser Gln Gly Ser Ala Ala Ser Pro Ser Glu
 100 105 110
 Pro Lys Val Ser Glu Ser Pro Ser Pro Val Thr Thr Asn Thr Pro Ala
 115 120 125
 Gln Phe Ala Ser Val Ser Pro Thr Val Pro Glu Phe Leu Lys Thr Pro
 130 135 140
 Pro Thr Ala Asp
 145 148

<210> 2100

<211> 142

<212> PRT

<213> Homo sapiens

<400> 2100

Leu Leu Thr Gln Ala Met Leu Val Leu Pro His Arg Pro Gln Trp Phe
 1 5 10 15
 Thr Pro Gly Pro Arg Leu Gln Ala Gln Gly Pro Cys Gln Glu Gly Trp
 20 25 30
 Arg Trp Glu Leu Arg Leu Arg Asn Tyr Val Pro Glu Asp Glu Asp Leu
 35 40 45
 Asn Lys Arg Arg Val Pro Gln Ala Lys Pro Asp Ala Val Gln Glu Lys
 50 55 60
 Val Lys Glu Gln Leu Glu Ala Ala Lys Pro Glu Pro Val Ile Glu Glu
 65 70 75 80
 Val Asp Leu Ala Lys Leu Ala Pro Arg Lys Pro Asp Trp Asp Leu Lys
 85 90 95
 Arg Asp Val Ala Lys Lys Leu Glu Lys Leu Leu Lys Arg Thr Gln Arg
 100 105 110
 Ala Ile Ala Glu Leu Ile Arg Glu Arg Leu Lys Gly Gln Glu Asp Ser
 115 120 125
 Leu Asp Ser Ala Val Asp Ala Ala Thr Glu His Lys Thr Cys
 130 135 140 142

<210> 2101

<211> 415

<212> PRT

<213> Homo sapiens

<400> 2101

Thr Asp Gln Ala Lys Val Asp Asn Gln Pro Glu Lys Leu Val Arg Ser
 1 5 10 15
 Ala Glu Asp Val Ser Thr Val Pro Thr Gln Pro Asp Asn Pro Phe Ser
 20 25 30
 His Pro Asp Lys Leu Lys Arg Met Ser Lys Ser Val Pro Ala Phe Leu
 35 40 45

Gln Asp Glu Ser Asp Asp Arg Glu Thr Asp Thr Ala Ser Glu Ser Ser
 50 55 60
 Tyr Gln Leu Ser Arg His Lys Lys Ser Pro Ser Ser Leu Thr Asn Leu
 65 70 75 80
 Ser Ser Ser Ser Gly Met Thr Ser Leu Ser Ser Val Ser Gly Ser Val
 85 90 95
 Met Ser Val Tyr Ser Gly Asp Phe Gly Asn Leu Glu Val Lys Gly Asn
 100 105 110
 Ile Gln Phe Ala Ile Glu Tyr Val Glu Ser Leu Lys Glu Leu His Val
 115 120 125
 Phe Val Ala Gln Cys Lys Asp Leu Ala Ala Ala Asp Val Lys Lys Gln
 130 135 140
 Arg Ser Asp Pro Tyr Val Lys Ala Tyr Leu Leu Pro Asp Lys Gly Lys
 145 150 155 160
 Met Gly Lys Lys Lys Thr Leu Val Val Lys Lys Thr Leu Asn Pro Val
 165 170 175
 Tyr Asn Glu Ile Leu Arg Tyr Lys Ile Glu Lys Gln Ile Leu Lys Thr
 180 185 190
 Gln Lys Leu Asn Leu Ser Ile Trp His Arg Asp Thr Phe Lys Arg Asn
 195 200 205
 Ser Phe Leu Gly Glu Val Glu Leu Asp Leu Glu Thr Trp Asp Trp Asp
 210 215 220
 Asn Lys Gln Asn Lys Gln Leu Arg Trp Tyr Pro Leu Lys Arg Lys Thr
 225 230 235 240
 Ala Pro Val Ala Leu Glu Ala Glu Asn Arg Gly Glu Met Lys Leu Ala
 245 250 255
 Leu Gln Tyr Val Pro Glu Pro Val Pro Gly Lys Lys Leu Pro Thr Thr
 260 265 270
 Gly Glu Val His Ile Trp Val Lys Glu Cys Leu Asp Leu Pro Leu Leu
 275 280 285
 Arg Gly Ser His Leu Asn Ser Phe Val Lys Cys Thr Ile Leu Pro Asp
 290 295 300
 Thr Ser Arg Lys Ser Arg Gln Lys Thr Arg Ala Val Gly Lys Thr Thr
 305 310 315 320
 Asn Pro Ile Phe Asn His Thr Met Val Tyr Asp Gly Phe Arg Pro Glu
 325 330 335
 Asp Leu Met Glu Ala Cys Val Glu Leu Thr Val Trp Asp His Tyr Lys
 340 345 350
 Leu Thr Asn Gln Phe Leu Gly Gly Leu Arg Ile Gly Phe Gly Thr Gly
 355 360 365
 Lys Ser Tyr Gly Thr Glu Val Asp Trp Met Asp Ser Thr Ser Glu Glu
 370 375 380
 Val Ala Leu Trp Glu Lys Met Val Asn Ser Pro Asn Thr Trp Ile Glu
 385 390 395 400
 Ala Thr Leu Pro Leu Arg Met Leu Leu Ile Ala Lys Ile Ser Lys
 405 410 415

<210> 2102
 <211> 391
 <212> PRT
 <213> Homo sapiens

<400> 2102
 Lys Glu Ile Phe Ser Pro Phe Glu Leu Ile Ser Val Lys Pro Leu Cys
 1 5 10 15
 Leu Leu Leu Gly Val Thr Cys Ser Gln Ser Met Ala Phe Glu Glu Leu
 20 25 30
 Leu Ser Gln Val Gly Gly Leu Gly Arg Phe Gln Met Leu His Leu Val
 35 40 45
 Phe Ile Leu Pro Ser Leu Met Leu Leu Ile Pro His Ile Leu Leu Glu
 50 55 60


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Asn Phe Ala Ala Ala Ile Pro Gly His Arg Cys Trp Val His Met Leu
 65          70          75          80
Asp Asn Asn Thr Gly Ser Gly Asn Glu Thr Gly Ile Leu Ser Glu Asp
          85          90          95
Ala Leu Leu Arg Ile Ser Ile Pro Leu Asp Ser Asn Leu Arg Pro Glu
          100          105          110
Lys Cys Arg Arg Phe Val His Pro Gln Trp Gln Leu Leu His Leu Asn
          115          120          125
Gly Thr Ile His Ser Thr Ser Glu Ala Asp Thr Glu Pro Cys Val Asp
          130          135          140
Gly Trp Val Tyr Asp Gln Ser Tyr Phe Pro Ser Thr Ile Val Thr Lys
          145          150          155          160
Trp Asp Leu Val Cys Asp Tyr Gln Ser Leu Lys Ser Val Val Gln Phe
          165          170          175
Leu Leu Leu Thr Gly Met Leu Val Gly Gly Ile Ile Gly Gly His Val
          180          185          190
Ser Asp Arg Phe Gly Arg Arg Phe Ile Leu Arg Trp Gly Leu Leu Gln
          195          200          205
Leu Ala Ile Thr Asp Thr Cys Ala Ala Phe Ala Pro Thr Phe Pro Val
          210          215          220
Tyr Cys Val Leu Arg Phe Leu Ala Gly Phe Ser Ser Met Ile Ile Ile
          225          230          235          240
Ser Asn Asn Ser Leu Pro Ile Thr Glu Trp Ile Arg Pro Asn Ser Lys
          245          250          255
Ala Leu Val Val Ile Leu Ser Ser Gly Ala Leu Asn Ile Gly Gln Ile
          260          265          270
Ile Leu Gly Gly Leu Ala Tyr Val Phe Arg Asp Trp Gln Thr Leu His
          275          280          285
Val Val Ala Ser Val Pro Phe Phe Val Phe Phe Leu Leu Ser Arg Trp
          290          295          300
Leu Val Glu Ser Ala Arg Trp Leu Ile Ile Thr Asn Lys Leu Asp Glu
          305          310          315          320
Gly Leu Lys Ala Leu Arg Lys Val Ala Arg Thr Asn Gly Ile Lys Asn
          325          330          335
Ala Glu Glu Thr Leu Asn Ile Glu Val Val Arg Ser Thr Met Gln Glu
          340          345          350
Glu Leu Asp Ala Ala Gln Thr Lys Thr Thr Val Trp Asp Leu Phe Arg
          355          360          365
Asn Pro Ser Met Arg Lys Arg Ile Cys Ile Leu Val Phe Leu Arg Lys
          370          375          380
Lys Asn Leu Lys Glu Lys Ala
          385          390          391

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<210> 2103
 <211> 490
 <212> PRT
 <213> Homo sapiens

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<400> 2103
Asp Ser Phe Glu Ser Ile Leu Arg Leu Ile Phe Glu Ile His His Ser
 1          5          10          15
Gly Glu Lys Gly Asp Ile Val Val Phe Leu Ala Cys Glu Gln Asp Ile
          20          25          30
Glu Lys Val Cys Glu Thr Val Tyr Gln Gly Ser Asn Leu Asn Pro Asp
          35          40          45
Leu Gly Glu Leu Val Val Val Pro Leu Tyr Pro Lys Glu Lys Cys Ser
          50          55          60
Leu Phe Lys Pro Leu Asp Glu Thr Glu Lys Arg Cys Gln Val Tyr Gln
          65          70          75          80
Arg Arg Val Val Leu Thr Thr Ser Ser Gly Glu Phe Leu Ile Trp Ser
          85          90          95

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Asn Ser Val Arg Phe Val Ile Asp Val Gly Val Glu Arg Arg Lys Val
      100      105      110
Tyr Asn Pro Arg Ile Arg Ala Asn Ser Leu Val Met Gln Pro Ile Ser
      115      120      125
Gln Ser Gln Ala Glu Ile Arg Lys Gln Ile Leu Gly Ser Ser Ser Ser
      130      135      140
Gly Lys Phe Phe Cys Leu Tyr Thr Glu Glu Phe Ala Ser Lys Asp Met
145      150      155      160
Thr Pro Leu Lys Pro Ala Glu Met Gln Glu Ala Asn Leu Thr Ser Met
      165      170      175
Val Leu Phe Met Lys Arg Ile Asp Ile Ala Gly Leu Gly His Cys Asp
      180      185      190
Phe Met Asn Arg Pro Ala Pro Glu Ser Leu Met Gln Ala Leu Glu Asp
      195      200      205
Leu Asp Tyr Leu Ala Ala Leu Asp Asn Asp Gly Asn Leu Ser Glu Phe
      210      215      220
Gly Ile Ile Met Ser Glu Phe Pro Leu Asp Pro Gln Leu Ser Lys Ser
225      230      235      240
Ile Leu Ala Ser Cys Glu Phe Asp Cys Val Asp Glu Val Leu Thr Ile
      245      250      255
Ala Ala Met Val Thr Ala Pro Asn Cys Phe Ser His Val Pro His Gly
      260      265      270
Ala Glu Glu Ala Ala Leu Thr Cys Trp Lys Thr Phe Leu His Pro Glu
      275      280      285
Gly Asp His Phe Thr Leu Ile Ser Ile Tyr Lys Ala Tyr Gln Asp Thr
      290      295      300
Thr Leu Asn Ser Ser Ser Glu Tyr Cys Val Glu Lys Trp Cys Arg Asp
305      310      315      320
Tyr Phe Leu Asn Cys Ser Ala Leu Arg Met Ala Asp Val Ile Arg Ala
      325      330      335
Glu Leu Leu Glu Ile Ile Lys Arg Ile Glu Leu Pro Tyr Ala Glu Pro
      340      345      350
Ala Phe Gly Ser Lys Glu Asn Thr Leu Asn Ile Lys Lys Ala Leu Leu
      355      360      365
Ser Gly Tyr Phe Met Gln Ile Ala Arg Asp Val Asp Gly Ser Gly Asn
      370      375      380
Tyr Leu Met Leu Thr His Lys Gln Val Ala Gln Leu His Pro Leu Ser
385      390      395      400
Gly Tyr Ser Ile Thr Lys Lys Met Pro Glu Trp Val Leu Phe His Lys
      405      410      415
Phe Ser Ile Ser Glu Asn Asn Tyr Ile Arg Ile Thr Ser Glu Ile Ser
      420      425      430
Pro Glu Leu Phe Met Gln Leu Val Pro Gln Tyr Tyr Phe Ser Asn Leu
      435      440      445
Pro Pro Ser Glu Ser Lys Asp Ile Leu Gln Gln Val Val Asp His Leu
      450      455      460
Ser Pro Val Ser Thr Met Asn Lys Glu Gln Gln Met Cys Glu Thr Cys
465      470      475      480
Pro Glu Thr Glu Gln Arg Cys Thr Leu Gln
      485      490

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<210> 2104
<211> 131
<212> PRT
<213> Homo sapiens

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```

<400> 2104
Tyr Tyr Ala Leu His His Trp Pro Phe Pro Asp Leu Leu Cys Gln Thr
 1      5      10      15
Thr Gly Ala Ile Phe Gln Met Asn Met Tyr Gly Ser Cys Ile Phe Leu
      20      25      30

```

```

Met Leu Ile Asn Val Asp Arg Tyr Ala Ala Ile Val His Pro Leu Arg
   35           40           45
Leu Arg His Leu Arg Arg Pro Arg Val Ala Arg Leu Leu Cys Leu Gly
   50           55           60
Val Trp Ala Leu Ile Leu Val Phe Ala Val Pro Ala Ala Arg Val His
   65           70           75           80
Arg Pro Ser Arg Cys Arg Tyr Arg Asp Leu Glu Val Arg Leu Cys Phe
   85           90           95
Glu Ser Phe Ser Asp Glu Leu Trp Lys Gly Arg Leu Leu Pro Leu Val
  100           105           110
Leu Leu Ala Glu Ala Leu Gly Phe Leu Leu Pro Leu Ala Ala Val Val
  115           120           125
Tyr Ser Ser
  130 131

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<210> 2105
<211> 597
<212> PRT
<213> Homo sapiens

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<400> 2105
Leu Gly Leu Gly Ser Gly Thr Leu Leu Ser Val Ser Glu Tyr Lys Lys
 1           5           10           15
Lys Tyr Arg Glu His Val Leu Gln Leu His Ala Arg Val Lys Glu Arg
   20           25           30
Asn Ala Arg Ser Val Lys Ile Thr Lys Arg Phe Thr Lys Leu Leu Ile
   35           40           45
Ala Pro Glu Ser Ala Ala Pro Glu Glu Ala Leu Gly Pro Ala Glu Glu
   50           55           60
Pro Glu Pro Gly Arg Ala Arg Arg Ser Asp Thr His Thr Phe Asn Arg
   65           70           75           80
Leu Phe Arg Arg Asp Glu Glu Gly Arg Arg Pro Leu Thr Val Val Leu
   85           90           95
Gln Gly Pro Ala Gly Ile Gly Lys Thr Met Ala Ala Lys Lys Ile Leu
  100           105           110
Tyr Asp Trp Ala Ala Gly Lys Leu Tyr Gln Gly Gln Val Asp Phe Ala
  115           120           125
Phe Phe Met Pro Cys Gly Glu Leu Leu Glu Arg Pro Gly Thr Arg Ser
  130           135           140
Leu Ala Asp Leu Ile Leu Asp Gln Cys Pro Asp Arg Gly Ala Pro Val
  145           150           155           160
Pro Gln Met Leu Ala Gln Pro Gln Arg Leu Leu Phe Ile Leu Asp Gly
  165           170           175
Ala Asp Glu Leu Pro Ala Leu Gly Gly Pro Glu Ala Ala Pro Cys Thr
  180           185           190
Asp Pro Phe Glu Ala Ala Ser Gly Ala Arg Val Leu Gly Gly Leu Leu
  195           200           205
Ser Lys Ala Leu Leu Pro Thr Ala Leu Leu Leu Val Thr Thr Arg Ala
  210           215           220
Ala Ala Pro Gly Arg Leu Gln Gly Arg Leu Cys Ser Pro Gln Cys Ala
  225           230           235           240
Glu Val Arg Gly Phe Ser Asp Lys Asp Lys Lys Tyr Phe Tyr Lys
  245           250           255
Phe Phe Arg Asp Glu Arg Arg Ala Glu Arg Ala Tyr Arg Phe Val Lys
  260           265           270
Glu Asn Glu Thr Leu Phe Ala Leu Cys Phe Val Pro Phe Val Cys Trp
  275           280           285
Ile Val Cys Thr Val Leu Arg Gln Gln Leu Glu Leu Gly Arg Asp Leu
  290           295           300
Ser Arg Thr Ser Lys Thr Thr Thr Ser Val Tyr Leu Leu Phe Ile Thr
  305           310           315           320

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```

Ser Val Leu Ser Ser Ala Pro Val Ala Asp Gly Pro Arg Leu Gln Gly
      325      330      335
Asp Leu Arg Asn Leu Cys Arg Leu Ala Arg Glu Gly Val Leu Gly Arg
      340      345      350
Arg Ala Gln Phe Ala Glu Lys Glu Leu Glu Gln Leu Glu Leu Arg Gly
      355      360      365
Ser Lys Val Gln Thr Leu Phe Leu Ser Lys Lys Glu Leu Pro Gly Val
      370      375      380
Leu Glu Thr Glu Val Thr Tyr Gln Phe Ile Asp Gln Ser Phe Gln Glu
385      390      395      400
Phe Leu Ala Ala Leu Ser Tyr Leu Leu Glu Asp Gly Gly Val Pro Arg
      405      410      415
Thr Ala Ala Gly Gly Val Gly Thr Leu Leu Arg Gly Asp Ala Gln Pro
      420      425      430
His Ser His Leu Val Leu Thr Thr Arg Phe Leu Phe Gly Leu Leu Ser
      435      440      445
Ala Glu Arg Met Arg Asp Ile Glu Arg His Phe Gly Cys Met Val Ser
450      455      460
Glu Arg Val Lys Gln Glu Ala Leu Arg Trp Val Gln Gly Gln Gly Gln
465      470      475      480
Gly Cys Pro Gly Val Ala Pro Glu Val Thr Glu Gly Ala Lys Gly Leu
      485      490      495
Glu Asp Thr Glu Glu Pro Glu Glu Glu Glu Gly Glu Glu Pro Asn
500      505      510
Tyr Pro Leu Glu Leu Leu Tyr Cys Leu Tyr Glu Thr Gln Glu Asp Ala
515      520      525
Phe Val Arg Gln Ala Leu Cys Arg Phe Pro Glu Leu Ala Leu Gln Arg
530      535      540
Val Arg Phe Cys Arg Met Asp Val Ala Val Leu Ser Tyr Cys Val Arg
545      550      555      560
Cys Cys Pro Ala Gly Gln Ala Leu Arg Leu Ile Ser Cys Arg Leu Val
      565      570      575
Ala Ala Gln Glu Lys Lys Lys Lys Ser Leu Gly Lys Arg Leu Gln Ala
580      585      590
Ser Leu Gly Gly Gly
595      597

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<210> 2106
<211> 141
<212> PRT
<213> Homo sapiens

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<400> 2106
Ser Gly Arg Pro Thr Arg Pro Ala Lys Pro Thr Gly Gln Gly Met Gly
1      5      10      15
Arg Phe Met Leu Thr Leu Val Cys Gln Gly Ser Ile Met Met Ser Ala
      20      25      30
Arg Asp Leu Ile Met Asn Asn Leu Thr Glu Leu Gln Pro Gly Leu Phe
35      40      45
His His Leu Arg Phe Leu Glu Glu Leu Arg Leu Ser Gly Asn His Leu
50      55      60
Ser His Ile Pro Gly Gln Ala Phe Ser Gly Leu Tyr Ser Leu Lys Ile
65      70      75      80
Leu Met Leu His Asn Asn Gln Leu Gly Gly Ile Pro Ala Gln Ala Leu
85      90      95
Trp Glu Leu Pro Ser Leu Gln Ser Leu Arg Leu Asp Ala Asn Leu Ile
100      105      110
Ser Leu Val Pro Glu Arg Ser Phe Glu Gly Leu Ser Ser Leu Arg His
115      120      125
Leu Trp Leu Asp Asp Asn Ala Leu Thr Glu Ile Pro Ser
130      135      140 141

```

<210> 2107
 <211> 121
 <212> PRT
 <213> Homo sapiens

<400> 2107
 Ile Thr Pro Leu Gly Leu Gly Ala Ala Asp Met Cys Ala Phe Pro Trp
 1 5 10 15
 Leu Leu Leu Leu Leu Leu Gln Glu Gly Ser Gln Arg Arg Leu Trp
 20 25 30
 Arg Trp Cys Gly Ser Glu Glu Val Val Ala Val Leu Gln Glu Ser Ile
 35 40 45
 Ser Leu Pro Leu Glu Ile Pro Pro Asp Glu Glu Val Glu Asn Ile Ile
 50 55 60
 Trp Ser Ser His Lys Ser Leu Ala Thr Val Val Pro Gly Lys Glu Gly
 65 70 75 80
 His Pro Ala Thr Ile Met Val Thr Asn Pro His Tyr Gln Gly Gln Ile
 85 90 95
 Leu Thr Met Leu Leu Arg Ser Leu Gln Gln Pro Ser Ala Ser Trp Pro
 100 105 110
 Arg Asp Cys Ser Ser Ser Cys Ser Trp
 115 120 121

<210> 2108
 <211> 104
 <212> PRT
 <213> Homo sapiens

<400> 2108
 Ile Gly Ile Ser Cys Pro Ala Thr Ile Phe Val Pro Met Phe Ser His
 1 5 10 15
 Ser Leu Ile Gly Ile Gly Glu Glu Tyr Gln Leu Pro Tyr Tyr Asn Met
 20 25 30
 Val Pro Ser Asp Pro Ser Tyr Glu Asp Met Arg Glu Val Val Cys Val
 35 40 45
 Lys Arg Leu Arg Pro Ile Val Ser Asn Arg Trp Asn Ser Asp Glu Cys
 50 55 60
 Leu Arg Ala Val Leu Lys Leu Met Ser Glu Cys Trp Ala His Asn Pro
 65 70 75 80
 Ala Ser Arg Leu Thr Ala Leu Arg Ile Lys Lys Thr Leu Ala Lys Met
 85 90 95
 Val Glu Ser Gln Asp Val Lys Ile
 100 104

<210> 2109
 <211> 216
 <212> PRT
 <213> Homo sapiens

<400> 2109
 Pro Gly Arg Arg Phe Arg Pro Ala Ala Leu Glu Glu Arg Ala Met Glu
 1 5 10 15
 Lys Leu Arg Glu Lys Val Pro Phe Gln Asn Arg Gly Lys Gly Thr Leu
 20 25 30

```

Ser Ser Ile Ile Pro Asn Asn Ser Asp Thr Arg Lys Ala Thr Glu Thr
  35          40          45
Thr Ser Leu Ser Ser Lys Pro Glu Tyr Val Asn Pro Asp Phe Arg Trp
  50          55          60
Ser Lys Asp Pro Ser Ser Lys Ser Gly Asn Leu Leu Glu Thr Ser Glu
  65          70          75          80
Val Gly Trp Thr Ser Asn Pro Glu Glu Leu Asp Pro Ile Arg Leu Ala
          85          90          95
Leu Leu Gly Lys Ser Gly Leu Ser Cys Gln Val Gly Ser Ala Thr Ser
          100          105          110
His Pro Val Ser Cys Gln Glu Pro Ile Asp Glu Asp Gln Arg Ile Ser
          115          120          125
Pro Lys Asp Lys Ser Thr Ala Gly Arg Glu Phe Ser Gly Gln Val Ser
          130          135          140
His Gln Thr Thr Ser Glu Asn Gln Cys Thr Pro Ile Pro Ser Ser Thr
          145          150          155          160
Val His Ser Ser Val Ala Asp Met Gln Asn Met Pro Ala Ala Val His
          165          170          175
Ala Leu Leu Thr Gln Pro Ser Leu Ser Ala Ala Pro Phe Ala Gln Arg
          180          185          190
Tyr Leu Gly Thr Leu Pro Ser Thr Gly Ser Thr Thr Leu Pro Gln Cys
          195          200          205
His Ala Gly Asn Ala Thr Val Trp
          210          215 216

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<210> 2110
<211> 242
<212> PRT
<213> Homo sapiens

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<400> 2110
Pro Leu Arg Leu Thr Leu Met Glu Glu Val Leu Leu Leu Gly Leu Lys
  1          5          10          15
Asp Arg Glu Gly Tyr Thr Ser Phe Trp Asn Asp Cys Ile Ser Ser Gly
          20          25          30
Leu Arg Gly Cys Met Leu Ile Glu Leu Pro Leu Arg Gly Arg Leu Gln
          35          40          45
Leu Glu Ala Cys Gly Met Arg Arg Lys Ser Leu Leu Thr Arg Lys Val
          50          55          60
Ile Cys Lys Ser Asp Ala Pro Thr Gly Asp Val Leu Leu Asp Glu Ala
          65          70          75          80
Leu Lys His Val Lys Glu Thr Gln Pro Pro Glu Thr Val Gln Asn Trp
          85          90          95
Ile Glu Leu Leu Ser Gly Glu Thr Trp Asn Pro Leu Lys Leu His Tyr
          100          105          110
Gln Leu Arg Asn Val Arg Glu Arg Leu Ala Lys Asn Leu Val Glu Lys
          115          120          125
Gly Val Leu Thr Thr Glu Lys Gln Asn Phe Leu Leu Phe Asp Met Thr
          130          135          140
Thr His Pro Leu Thr Asn Asn Asn Ile Lys Gln Arg Leu Ile Lys Lys
          145          150          155          160
Val Gln Glu Ala Val Leu Asp Lys Trp Val Asn Asp Pro His Arg Met
          165          170          175
Asp Arg Arg Leu Leu Ala Leu Ile Tyr Leu Ala His Ala Ser Asp Val
          180          185          190
Leu Glu Asn Ala Phe Ala Pro Leu Leu Asp Glu Gln Tyr Asp Leu Ala
          195          200          205
Thr Lys Arg Val Arg Gln Leu Leu Asp Leu Asp Pro Glu Val Glu Cys
          210          215          220
Leu Lys Ala Asn Thr Asn Glu Val Leu Trp Ala Val Val Ala Ala Phe
          225          230          235          240

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Thr Lys
242

<210> 2111
<211> 147
<212> PRT
<213> Homo sapiens

<400> 2111
Ile Val Ser Phe His Leu Ser Gly Phe Lys Lys Phe Val Arg Pro Phe
1 5 10 15
Ser Phe Leu Ser Val His Gly Leu Gln Val Asp Glu Tyr His Ser Val
20 25 30
His Gln Lys Leu Ser Ala Asp Met Ala Asp His Ser Asn Leu Ile Arg
35 40 45
Ser Leu Leu Val Gly Ala Glu Asp Ala Arg Leu Met Arg Asp Met Lys
50 55 60
Thr Met Lys Ser Arg Tyr Met Glu Leu Tyr Asp Leu Asn Arg Asp Leu
65 70 75 80
Leu Asn Gly Tyr Lys Ile Arg Trp Asn Asn His Thr Glu Leu Leu Gly
85 90 95
Asn Leu Lys Ala Val Asn Gln Ala Ile Gln Arg Ala Gly Arg Leu Arg
100 105 110
Val Gly Lys Pro Lys Asn Gln Val Ile Thr Ala Cys Arg Asp Ala Ile
115 120 125
Arg Ser Asn Asn Ile Asn Thr Leu Phe Lys Ile Met Arg Val Gly Thr
130 135 140
Ala Ser Ser
145 147

<210> 2112
<211> 894
<212> PRT
<213> Homo sapiens

<400> 2112
Lys Lys Ala Ile Thr Cys Gly Glu Lys Glu Lys Gln Asp Leu Ile Lys
1 5 10 15
Ser Leu Ala Met Leu Lys Asp Gly Phe Arg Thr Asp Arg Gly Ser His
20 25 30
Ser Asp Leu Trp Ser Ser Ser Ser Leu Glu Ser Ser Ser Phe Pro
35 40 45
Leu Pro Lys Gln Tyr Leu Asp Val Ser Ser Gln Thr Asp Ile Ser Gly
50 55 60
Ser Phe Gly Ile Asn Ser Asn Asn Gln Leu Ala Glu Lys Val Arg Leu
65 70 75 80
Arg Leu Arg Tyr Glu Glu Ala Lys Arg Arg Ile Ala Asn Leu Lys Ile
85 90 95
Gln Leu Ala Lys Leu Asp Ser Glu Ala Trp Pro Gly Val Leu Asp Ser
100 105 110
Glu Arg Asp Arg Leu Ile Leu Ile Asn Glu Lys Glu Glu Leu Leu Lys
115 120 125
Glu Met Arg Phe Ile Ser Pro Arg Lys Trp Thr Gln Gly Glu Val Glu
130 135 140
Gln Leu Glu Met Ala Arg Lys Arg Leu Glu Lys Asp Leu Gln Ala Ala
145 150 155 160
Arg Asp Thr Gln Ser Lys Ala Leu Thr Glu Arg Leu Lys Leu Asn Ser
165 170 175

Lys Arg Asn Gln Leu Val Arg Glu Leu Glu Glu Ala Thr Arg Gln Val
 180 185 190
 Ala Thr Leu His Ser Gln Leu Lys Ser Leu Ser Ser Ser Met Gln Ser
 195 200 205
 Leu Ser Ser Gly Ser Ser Pro Gly Ser Leu Thr Ser Ser Arg Gly Ser
 210 215 220
 Leu Val Ala Ser Ser Leu Asp Ser Ser Thr Ser Ala Ser Phe Thr Asp
 225 230 235 240
 Leu Tyr Tyr Asp Pro Phe Glu Gln Leu Asp Ser Glu Leu Gln Ser Lys
 245 250 255
 Val Glu Phe Leu Leu Leu Glu Gly Ala Thr Gly Phe Arg Pro Ser Gly
 260 265 270
 Cys Ile Thr Thr Ile His Glu Asp Glu Val Ala Lys Thr Gln Lys Ala
 275 280 285
 Glu Gly Gly Gly Arg Leu Gln Ala Leu Arg Ser Leu Ser Gly Thr Pro
 290 295 300
 Lys Ser Met Thr Ser Leu Ser Pro Arg Ser Ser Leu Ser Ser Pro Ser
 305 310 315 320
 Pro Pro Cys Ser Pro Leu Met Ala Asp Pro Leu Leu Ala Gly Asp Ala
 325 330 335
 Phe Leu Asn Ser Leu Glu Phe Glu Asp Pro Glu Leu Ser Ala Thr Leu
 340 345 350
 Cys Glu Leu Ser Leu Gly Asn Ser Ala Gln Glu Arg Tyr Arg Leu Glu
 355 360 365
 Glu Pro Gly Thr Glu Gly Lys Gln Leu Gly Gln Ala Val Asn Thr Ala
 370 375 380
 Gln Gly Cys Gly Leu Lys Val Ala Cys Val Ser Ala Ala Val Ser Asp
 385 390 395 400
 Glu Ser Val Ala Gly Asp Ser Gly Val Tyr Glu Ala Ser Val Gln Arg
 405 410 415
 Leu Gly Ala Ser Glu Ala Ala Ala Phe Asp Ser Asp Glu Ser Glu Ala
 420 425 430
 Val Gly Ala Thr Arg Ile Gln Ile Ala Leu Lys Tyr Asp Glu Lys Asn
 435 440 445
 Lys Gln Phe Ala Ile Leu Ile Ile Gln Leu Ser Asn Leu Ser Ala Leu
 450 455 460
 Leu Gln Gln Gln Asp Gln Lys Val Asn Ile Arg Val Ala Val Leu Pro
 465 470 475 480
 Cys Ser Glu Ser Thr Thr Cys Leu Phe Arg Thr Arg Pro Leu Asp Ala
 485 490 495
 Ser Asp Thr Leu Val Phe Asn Glu Val Phe Trp Val Ser Met Ser Tyr
 500 505 510
 Pro Ala Leu His Gln Lys Thr Leu Arg Val Asp Val Cys Thr Thr Asp
 515 520 525
 Arg Ser His Leu Glu Glu Cys Leu Gly Gly Ala Gln Ile Ser Leu Ala
 530 535 540
 Glu Val Cys Arg Ser Gly Glu Arg Ser Thr Arg Trp Tyr Asn Leu Leu
 545 550 555 560
 Ser Tyr Lys Tyr Leu Lys Lys Gln Ser Arg Glu Leu Lys Pro Val Gly
 565 570 575
 Val Met Ala Pro Ala Ser Gly Pro Ala Ser Thr Asp Ala Val Ser Ala
 580 585 590
 Leu Leu Glu Gln Thr Ala Val Glu Leu Glu Lys Arg Gln Glu Gly Arg
 595 600 605
 Ser Ser Thr Gln Thr Leu Glu Asp Ser Trp Arg Tyr Glu Glu Thr Ser
 610 615 620
 Glu Asn Glu Ala Val Ala Glu Glu Glu Glu Glu Val Glu Glu Glu
 625 630 635 640
 Glu Gly Glu Glu Asp Val Phe Thr Glu Lys Ala Ser Pro Asp Met Asp
 645 650 655
 Gly Tyr Pro Ala Leu Lys Val Asp Lys Glu Thr Asn Thr Glu Thr Pro
 660 665 670
 Ala Pro Ser Pro Thr Val Val Arg Pro Lys Asp Arg Arg Val Gly Thr
 675 680 685


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Pro Ser Gln Gly Pro Phe Leu Arg Gly Ser Thr Ile Ile Arg Ser Lys
 690                      695                      700
Thr Phe Ser Pro Gly Pro Gln Ser Gln Tyr Val Cys Arg Leu Asn Arg
705                      710                      715                      720
Ser Asp Ser Asp Ser Ser Thr Leu Ser Lys Lys Pro Pro Phe Val Arg
                      725                      730                      735
Asn Ser Leu Glu Arg Arg Ser Val Arg Met Lys Arg Pro Ser Pro Pro
                      740                      745                      750
Pro Gln Pro Ser Ser Val Lys Ser Leu Arg Ser Glu Arg Leu Ile Arg
                      755                      760                      765
Thr Ser Leu Asp Leu Glu Leu Asp Leu Gln Ala Thr Arg Thr Trp His
770                      775                      780
Ser Gln Leu Thr Gln Glu Ile Ser Val Leu Lys Glu Leu Lys Glu Gln
785                      790                      795                      800
Leu Glu Gln Ala Lys Ser His Gly Glu Lys Glu Leu Pro Gln Trp Leu
                      805                      810                      815
Arg Glu Asp Glu Arg Phe Arg Leu Leu Leu Arg Met Leu Glu Lys Arg
                      820                      825                      830
Met Asp Arg Ala Glu His Met Gly Glu Leu Gln Thr Asp Lys Met Met
                      835                      840                      845
Arg Ala Ala Ala Lys Asp Val His Arg Leu Arg Gly Gln Ser Cys Lys
850                      855                      860
Glu Pro Pro Glu Val Gln Ser Phe Arg Glu Lys Met Ala Phe Phe Thr
865                      870                      875                      880
Arg Pro Arg Met Asn Ile Pro Ala Leu Ser Ala Asp Asp Val
                      885                      890                      894

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<210> 2113
 <211> 518
 <212> PRT
 <213> Homo sapiens

```

<400> 2113
Pro His Pro Ile Arg Phe Ser Lys Leu Cys Val Ser Phe Asn Asn Gln
 1                      5                      10                      15
Glu Tyr Asn Gln Phe Cys Val Ile Glu Glu Ala Ser Lys Ala Asn Glu
                      20                      25                      30
Val Leu Glu Asn Leu Thr Gln Gly Lys Met Cys Leu Val Pro Gly Lys
                      35                      40                      45
Thr Arg Lys Leu Leu Phe Lys Phe Val Ala Lys Thr Glu Asp Val Gly
50                      55                      60
Lys Lys Ile Glu Ile Thr Ser Val Asp Leu Ala Leu Gly Asn Glu Thr
65                      70                      75                      80
Gly Arg Cys Val Val Leu Asn Trp Gln Gly Gly Gly Gly Asp Ala Ala
                      85                      90                      95
Ser Ser Gln Glu Ala Leu Gln Ala Ala Arg Ser Phe Lys Arg Arg Pro
100                      105                      110
Lys Leu Pro Asp Asn Glu Val His Trp Gly Ser Ile Ile Ile Gln Ala
115                      120                      125
Ser Thr Met Ile Ile Ser Arg Val Pro Asn Ile Ser Val His Leu Leu
130                      135                      140
His Glu Pro Pro Ala Leu Thr Asn Glu Met Tyr Cys Leu Val Val Thr
145                      150                      155                      160
Val Gln Ser His Glu Lys Thr Gln Ile Arg Asp Val Lys Leu Thr Ala
                      165                      170                      175
Gly Leu Lys Pro Gly Gln Asp Ala Asn Leu Thr Gln Lys Thr His Val
180                      185                      190
Thr Leu His Gly Thr Glu Leu Cys Asp Glu Ser Tyr Pro Ala Leu Leu
195                      200                      205
Thr Asp Ile Pro Val Gly Asp Leu His Pro Gly Glu Gln Leu Glu Lys
210                      215                      220

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```

Met Leu Tyr Val Arg Cys Gly Thr Val Gly Ser Arg Met Phe Leu Val
225                230                235                240
Tyr Val Ser Tyr Leu Ile Asn Thr Thr Val Glu Glu Lys Glu Ile Val
                245                250                255
Cys Lys Cys His Lys Asp Glu Thr Val Thr Ile Glu Thr Val Phe Pro
                260                265                270
Phe Asp Val Ala Val Lys Phe Val Ser Thr Lys Phe Glu His Leu Glu
                275                280                285
Arg Val Tyr Ala Asp Ile Pro Phe Leu Leu Met Thr Asp Leu Leu Ser
                290                295                300
Ala Ser Pro Trp Ala Leu Thr Ile Val Ser Ser Glu Leu His Leu Ala
305                310                315                320
Pro Ser Met Thr Thr Val Asp Gln Leu Glu Ser Gln Val Asp Asn Val
                325                330                335
Ile Leu Gln Thr Gly Glu Ser Ala Ser Glu Cys Phe Cys Leu Gln Cys
                340                345                350
Pro Ser Leu Gly Asn Ile Glu Gly Gly Val Ala Thr Gly His Tyr Ile
                355                360                365
Ile Ser Trp Lys Arg Thr Ser Ala Met Glu Asn Ile Pro Ile Ile Thr
                370                375                380
Thr Val Ile Thr Leu Pro His Val Ile Val Glu Asn Ile Pro Leu His
385                390                395                400
Val Asn Ala Asp Leu Pro Ser Phe Gly Arg Val Arg Glu Ser Leu Pro
                405                410                415
Val Lys Tyr His Leu Gln Asn Lys Thr Asp Leu Val Gln Asp Val Glu
                420                425                430
Ile Ser Val Glu Pro Ser Asp Ala Phe Met Phe Ser Gly Leu Lys Gln
                435                440                445
Ile Arg Leu Arg Ile Leu Pro Gly Thr Glu Gln Glu Met Leu Tyr Asn
                450                455                460
Phe Tyr Pro Leu Met Ala Gly Tyr Gln Gln Leu Pro Ser Leu Asn Ile
465                470                475                480
Asn Leu Leu Arg Phe Pro Asn Phe Thr Asn Gln Leu Leu Arg Arg Phe
                485                490                495
Ile Pro Thr Ser Ile Phe Val Lys Pro Gln Gly Arg Leu Met Asp Asp
                500                505                510
Thr Ser Ile Ala Ala Ala
                515                518

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<210> 2114
<211> 474
<212> PRT
<213> Homo sapiens

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<400> 2114
Ala Ala Ala Asp Leu Ala Asn Ser Asn Ala Gly Ala Ala Val Gly Arg
1                5                10                15
Lys Ala Gly Pro Arg Ser Pro Pro Ser Ala Pro Ala Pro Ala Pro Pro
                20                25                30
Pro Pro Ala Pro Ala Pro Pro Thr Leu Gly Asn Asn His Gln Glu Ser
                35                40                45
Pro Gly Trp Arg Cys Cys Arg Pro Thr Leu Arg Glu Arg Asn Ala Leu
                50                55                60
Met Phe Asn Asn Glu Leu Met Ala Asp Val His Phe Val Val Gly Pro
                65                70                75                80
Pro Gly Ala Thr Arg Thr Val Pro Ala His Lys Tyr Val Leu Ala Val
                85                90                95
Gly Ser Ser Val Phe Tyr Ala Met Phe Tyr Gly Asp Leu Ala Glu Val
                100                105                110
Lys Ser Glu Ile His Ile Pro Asp Val Glu Pro Ala Ala Phe Leu Ile
                115                120                125

```

Leu Leu Lys Tyr Met Tyr Ser Asp Glu Ile Asp Leu Glu Ala Asp Thr
 130 135 140
 Val Leu Ala Thr Leu Tyr Ala Ala Lys Lys Tyr Ile Val Pro Ala Leu
 145 150 155 160
 Ala Lys Ala Cys Val Asn Phe Leu Glu Thr Ser Leu Glu Ala Lys Asn
 165 170 175
 Ala Cys Val Leu Leu Ser Gln Ser Arg Leu Phe Glu Glu Pro Glu Leu
 180 185 190
 Thr Gln Arg Cys Trp Glu Val Ile Asp Ala Gln Ala Glu Met Ala Leu
 195 200 205
 Arg Ser Glu Gly Phe Cys Glu Ile Asp Arg Gln Thr Leu Glu Ile Ile
 210 215 220
 Val Thr Arg Glu Ala Leu Asn Thr Lys Glu Ala Val Val Phe Glu Ala
 225 230 235 240
 Val Leu Asn Trp Ala Glu Ala Glu Cys Lys Arg Gln Gly Leu Pro Ile
 245 250 255
 Thr Pro Arg Asn Lys Arg His Val Leu Gly Arg Ala Leu Tyr Leu Val
 260 265 270
 Arg Ile Pro Thr Met Thr Leu Glu Glu Phe Ala Asn Gly Ala Ala Gln
 275 280 285
 Ser Asp Ile Leu Thr Leu Glu Glu Thr His Ser Ile Phe Leu Trp Tyr
 290 295 300
 Thr Ala Thr Asn Lys Pro Arg Leu Asp Phe Pro Leu Thr Lys Arg Lys
 305 310 315 320
 Gly Leu Ala Pro Gln Arg Cys His Arg Phe Gln Ser Ser Ala Tyr Arg
 325 330 335
 Ser Asn Gln Trp Arg Tyr Arg Gly Arg Cys Asp Ser Ile Gln Phe Ala
 340 345 350
 Val Asp Arg Arg Val Phe Ile Ala Gly Leu Gly Leu Tyr Gly Ser Ser
 355 360 365
 Ser Gly Lys Ala Glu Tyr Ser Val Lys Ile Glu Leu Lys Arg Leu Gly
 370 375 380
 Val Val Leu Ala Gln Asn Leu Thr Lys Phe Met Ser Asp Gly Ser Ser
 385 390 395 400
 Asn Thr Phe Pro Val Trp Phe Glu His Pro Val Gln Val Glu Gln Asp
 405 410 415
 Thr Phe Tyr Thr Ala Ser Ala Val Leu Asp Gly Ser Glu Leu Ser Tyr
 420 425 430
 Phe Gly Gln Glu Gly Met Thr Glu Val Gln Cys Gly Lys Val Ala Phe
 435 440 445
 Gln Phe Gln Cys Ser Ser Asp Ser Thr Asn Gly Thr Gly Val Gln Gly
 450 455 460
 Gly Gln Ile Pro Glu Leu Ile Phe Tyr Ala
 465 470 474

<210> 2115

<211> 383

<212> PRT

<213> Homo sapiens

<400> 2115

Ser Gly Phe Thr His Tyr Ala Ile Tyr Asp Phe Ile Val Lys Gly Ser
 1 5 10 15
 Cys Phe Cys Asn Val His Ala Asp Gln Cys Ile Pro Val His Gly Phe
 20 25 30
 Arg Pro Val Lys Ala Pro Gly Thr Phe His Met Val His Gly Lys Cys
 35 40 45
 Met Cys Lys His Asn Thr Ala Gly Ser His Cys Gln His Cys Ala Pro
 50 55 60
 Leu Tyr Asn Asp Arg Pro Trp Glu Ala Ala Asp Gly Lys Thr Gly Ala
 65 70 75 80

```

Pro Asn Glu Cys Arg Thr Cys Lys Cys Asn Gly His Ala Asp Thr Cys
      85          90          95
His Phe Asp Val Asn Val Trp Glu Ala Ser Gly Asn Arg Ser Gly Gly
      100        105        110
Val Cys Asp Asp Cys Gln His Asn Thr Glu Gly Gln Tyr Cys Gln Arg
      115        120        125
Cys Lys Pro Gly Phe Tyr Arg Asp Leu Arg Arg Pro Phe Ser Ala Pro
      130        135        140
Asp Ala Cys Lys Pro Cys Ser Cys His Pro Val Gly Ser Ala Val Leu
      145        150        155        160
Pro Ala Asn Ser Val Thr Phe Cys Asp Pro Ser Asn Gly Asp Cys Pro
      165        170        175
Cys Lys Pro Gly Val Ala Gly Arg Arg Cys Asp Arg Cys Met Val Gly
      180        185        190
Tyr Trp Gly Phe Gly Asp Tyr Gly Cys Arg Pro Cys Asp Cys Ala Gly
      195        200        205
Ser Cys Asp Pro Ile Thr Gly Asp Cys Ile Ser Ser His Thr Asp Ile
      210        215        220
Asp Trp Tyr His Glu Val Pro Asp Phe Arg Pro Val His Asn Lys Ser
      225        230        235        240
Glu Pro Pro Trp Glu Trp Glu Asp Ala Gln Gly Phe Ser Ala Leu Leu
      245        250        255
His Ser Gly Lys Cys Glu Cys Lys Glu Gln Thr Leu Gly Asn Ala Lys
      260        265        270
Ala Phe Cys Gly Met Lys Tyr Ser Tyr Val Leu Lys Ile Lys Ile Leu
      275        280        285
Ser Ala His Asp Lys Gly Thr His Val Glu Val Asn Val Lys Ile Lys
      290        295        300
Lys Val Leu Lys Ser Thr Lys Leu Lys Ile Phe Arg Gly Lys Arg Thr
      305        310        315        320
Leu Tyr Pro Glu Ser Trp Thr Asp Arg Gly Cys Thr Cys Pro Ile Leu
      325        330        335
Asn Pro Gly Leu Glu Tyr Leu Val Ala Gly His Glu Asp Ile Arg Thr
      340        345        350
Gly Lys Leu Ile Val Asn Met Lys Ser Phe Val Gln His Trp Lys Pro
      355        360        365
Ser Leu Gly Arg Lys Val Met Asp Ile Leu Lys Arg Glu Cys Lys
      370          375        380        383

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<210> 2116
<211> 127
<212> PRT
<213> Homo sapiens

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<400> 2116
Met Thr Ala Ala Ala Thr Ala Thr Val Leu Lys Glu Gly Val Leu Glu
  1          5          10          15
Lys Arg Ser Gly Gly Leu Leu Gln Leu Trp Lys Arg Lys Arg Cys Val
      20        25        30
Leu Thr Glu Arg Gly Leu Gln Leu Phe Glu Ala Lys Gly Thr Gly Gly
      35        40        45
Arg Pro Lys Glu Leu Ser Phe Ala Arg Ile Lys Ala Val Glu Cys Val
      50        55        60
Glu Ser Thr Gly Arg His Ile Tyr Phe Thr Leu Val Thr Glu Gly Gly
      65        70        75        80
Gly Glu Ile Asp Phe Arg Cys Pro Leu Glu Asp Pro Gly Trp Asn Ala
      85        90        95
Gln Ile Thr Leu Gly Leu Val Lys Phe Lys Asn Gln Gln Ala Ile Gln
      100       105       110
Thr Val Arg Ala Arg Gln Ser Leu Gly Thr Gly Thr Leu Val Ser
      115       120       125       127

```

<210> 2117
 <211> 180
 <212> PRT
 <213> Homo sapiens

<400> 2117
 Ser Gly Ser Ser His Ala Ser Asp Gly Ser Gly Phe Gln Glu Leu Arg
 1 5 10 15
 Ile Cys Ser Glu Asp Gln Thr Pro Leu Ile Ala Gly Met Cys Ser Leu
 20 25 30
 Pro Met Ala Arg Tyr Tyr Ile Ile Lys Tyr Ala Asp Gln Lys Ala Leu
 35 40 45
 Tyr Thr Arg Asp Gly Gln Leu Leu Val Gly Asp Pro Val Ala Asp Asn
 50 55 60
 Cys Cys Ala Glu Lys Ile Cys Thr Leu Pro Asn Arg Gly Leu Asp Arg
 65 70 75 80
 Thr Lys Val Pro Ile Phe Leu Gly Ile Gln Gly Gly Ser Arg Cys Leu
 85 90 95
 Ala Cys Val Glu Thr Glu Glu Gly Pro Ser Leu Gln Leu Glu Asp Val
 100 105 110
 Asn Ile Glu Glu Leu Tyr Lys Gly Gly Glu Glu Ala Thr Arg Phe Thr
 115 120 125
 Phe Phe Gln Ser Ser Ser Gly Ser Ala Phe Arg Leu Glu Ala Ala Ala
 130 135 140
 Trp Pro Gly Trp Phe Leu Cys Gly Pro Ala Glu Pro Gln Gln Pro Val
 145 150 155 160
 Gln Leu Thr Lys Glu Ser Glu Pro Ser Ala Arg Thr Lys Phe Tyr Phe
 165 170 175
 Glu Gln Ser Trp
 180

<210> 2118
 <211> 96
 <212> PRT
 <213> Homo sapiens

<400> 2118
 Phe Ile Leu Gln Ala Val Leu Gln Leu Ser Ser Gln Glu Ala Arg Tyr
 1 5 10 15
 Lys Ala Phe Gly Thr Cys Val Ser His Ile Gly Ala Ile Leu Ala Phe
 20 25 30
 Tyr Thr Pro Ser Val Ile Ser Ser Val Met His Arg Val Ala Arg Cys
 35 40 45
 Ala Ala Pro His Val His Ile Leu Leu Ala Asn Phe Tyr Leu Leu Phe
 50 55 60
 Pro Pro Met Val Asn Pro Ile Ile Tyr Gly Val Lys Thr Lys Gln Ile
 65 70 75 80
 Arg Asp Ser Leu Gly Ser Ile Pro Glu Lys Gly Cys Val Asn Arg Glu
 85 90 95 96

<210> 2119
 <211> 237
 <212> PRT

<213> Homo sapiens

<400> 2119

```

Arg His Glu Pro Ser Cys Ser Asn Gly Val Ala Ser Thr Lys Ser Lys
 1          5          10          15
Gln Asn His Ser Lys Tyr Pro Ala Pro Ser Ser Ser Ser Ser Ser
 20          25          30
Ser Ser Ser Ser Ser Ser Pro Ser Ser Val Asn Tyr Ser Glu Ser
 35          40          45
Asn Ser Thr Asp Ser Thr Lys Ser Gln His His Ser Ser Thr Ser Asn
 50          55          60
Gln Glu Thr Ser Asp Ser Glu Met Glu Met Glu Ala Glu His Tyr Pro
 65          70          75          80
Asn Gly Val Leu Gly Ser Met Ser Thr Arg Ile Val Asn Gly Ala Tyr
 85          90          95
Lys His Glu Asp Leu Gln Thr Asp Glu Ser Ser Met Asp Asp Arg His
 100          105          110
Pro Arg Arg Gln Leu Cys Gly Gly Asn Gln Ala Ala Thr Glu Arg Ile
 115          120          125
Ile Leu Phe Gly Arg Glu Leu Gln Ala Leu Ser Glu Gln Leu Gly Arg
 130          135          140
Glu Tyr Gly Lys Asn Leu Ala His Thr Glu Met Leu Gln Asp Ala Phe
 145          150          155          160
Ser Leu Leu Ala Tyr Ser Asp Pro Trp Ser Cys Pro Val Gly Gln Gln
 165          170          175
Leu Asp Pro Ile Gln Arg Glu Pro Val Cys Ala Ala Leu Asn Ser Ala
 180          185          190
Ile Leu Glu Ser Gln Asn Leu Pro Lys Gln Pro Pro Leu Met Leu Ala
 195          200          205
Leu Gly Gln Ala Ser Glu Cys Leu Arg Leu Met Ala Arg Ala Gly Leu
 210          215          220
Gly Ser Cys Ser Phe Ala Arg Val Asp Asp Tyr Leu His
 225          230          235          237

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<210> 2120

<211> 189

<212> PRT

<213> Homo sapiens

<400> 2120

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Tyr Phe Gly Leu Asn Leu His Val Gln His Leu Gly Asn Asn Val Phe
 1          5          10          15
Leu Leu Gln Thr Leu Phe Gly Ala Val Ile Leu Leu Ala Asn Cys Val
 20          25          30
Ala Pro Trp Ala Leu Lys Tyr Met Asn Arg Arg Ala Ser Gln Met Leu
 35          40          45
Leu Met Phe Leu Leu Ala Ile Cys Leu Leu Ala Ile Ile Phe Val Pro
 50          55          60
Gln Glu Met Gln Met Leu Arg Glu Val Leu Ala Thr Leu Gly Leu Gly
 65          70          75          80
Ala Ser Ala Leu Ala Asn Thr Leu Ala Phe Ala His Gly Asn Glu Val
 85          90          95
Ile Pro Thr Ile Ile Arg Ala Arg Ala Met Gly Ile Asn Ala Thr Phe
 100          105          110
Ala Asn Ile Ala Gly Ala Leu Ala Pro Leu Met Met Ile Leu Ser Val
 115          120          125
Tyr Ser Pro Pro Leu Pro Trp Ile Ile Tyr Gly Val Phe Pro Phe Ile
 130          135          140
Ser Gly Phe Ala Phe Leu Leu Leu Pro Glu Thr Arg Asn Lys Pro Leu
 145          150          155          160

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Phe Asp Thr Ile Gln Asp Glu Lys Asn Glu Arg Lys Asp Pro Arg Glu
 165 170 175
 Pro Lys Gln Glu Asp Pro Arg Val Glu Val Thr Gln Phe
 180 185 189

<210> 2121
 <211> 185
 <212> PRT
 <213> Homo sapiens

<400> 2121
 Arg Ser Phe Val Leu Asp Thr Ala Ser Ala Ile Cys Asn Tyr Asn Ala
 1 5 10 15
 His Tyr Lys Asn His Pro Lys Tyr Trp Cys Arg Gly Tyr Phe Arg Asp
 20 25 30
 Tyr Cys Asn Ile Ile Ala Phe Ser Pro Asn Ser Thr Asn His Val Ala
 35 40 45
 Leu Arg Asp Thr Gly Asn Gln Leu Ile Val Thr Met Ser Cys Leu Thr
 50 55 60
 Lys Glu Asp Thr Gly Trp Tyr Trp Cys Gly Ile Gln Arg Asp Phe Ala
 65 70 75 80
 Arg Asp Asp Met Asp Phe Thr Glu Leu Ile Val Thr Asp Asp Lys Gly
 85 90 95
 Thr Leu Ala Asn Asp Phe Trp Ser Gly Lys Asp Leu Ser Gly Asn Lys
 100 105 110
 Thr Arg Ser Cys Lys Ala Pro Lys Val Val Arg Lys Ala Asp Arg Ser
 115 120 125
 Arg Thr Ser Ile Leu Ile Ile Cys Ile Leu Ile Thr Gly Leu Gly Ile
 130 135 140
 Ile Ser Val Ile Ser His Leu Thr Lys Arg Arg Ser Gln Arg Asn
 145 150 155 160
 Arg Arg Val Gly Asn Thr Leu Lys Pro Phe Ser Arg Val Leu Thr Pro
 165 170 175
 Lys Glu Met Ala Pro Thr Glu Gln Met
 180 185

<210> 2122
 <211> 268
 <212> PRT
 <213> Homo sapiens

<400> 2122
 Phe Val Leu Gly Ile Leu Ala Leu Ser His Thr Ile Ser Pro Phe Met
 1 5 10 15
 Asn Lys Phe Phe Pro Ala Ser Phe Pro Asn Arg Gln Tyr Gln Leu Leu
 20 25 30
 Phe Thr Gln Gly Ser Gly Glu Asn Lys Glu Glu Ile Ile Asn Tyr Glu
 35 40 45
 Phe Asp Thr Lys Asp Leu Val Cys Leu Gly Leu Ser Ser Ile Val Gly
 50 55 60
 Val Trp Tyr Leu Leu Arg Lys His Trp Ile Ala Asn Asn Leu Phe Gly
 65 70 75 80
 Leu Ala Phe Ser Leu Asn Gly Val Glu Leu Leu His Leu Asn Asn Val
 85 90 95
 Ser Thr Gly Cys Ile Leu Leu Gly Gly Leu Phe Ile Tyr Asp Val Phe
 100 105 110
 Trp Val Phe Gly Thr Asn Val Met Val Thr Val Ala Lys Ser Phe Glu
 115 120 125

```

Ala Pro Ile Lys Leu Val Phe Pro Gln Asp Leu Leu Glu Lys Gly Leu
130      135      140
Glu Ala Asn Asn Phe Ala Met Leu Gly Leu Gly Asp Val Val Ile Pro
145      150      155      160
Gly Ile Phe Ile Ala Leu Leu Leu Arg Phe Asp Ile Ser Leu Lys Lys
      165      170      175
Asn Thr His Thr Tyr Phe Tyr Thr Ser Phe Ala Ala Tyr Ile Phe Gly
      180      185      190
Leu Gly Leu Thr Ile Phe Ile Met His Ile Phe Lys His Ala Gln Pro
      195      200      205
Ala Leu Leu Tyr Leu Val Pro Ala Cys Ile Gly Phe Pro Val Leu Val
      210      215      220
Ala Leu Ala Lys Gly Glu Val Thr Glu Met Phe Ser Tyr Glu Glu Ser
225      230      235      240
Asn Pro Lys Asp Pro Ala Ala Val Thr Glu Ser Lys Glu Gly Thr Glu
      245      250      255
Ala Ser Ala Ser Lys Gly Leu Glu Lys Lys Glu Lys
      260      265      268

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<210> 2123
<211> 362
<212> PRT
<213> Homo sapiens

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<400> 2123
Cys Gln Pro Met Leu Val Thr Arg Lys Asn His Pro Lys Leu Leu Leu
1      5      10      15
Arg Arg Thr Glu Ser Val Ala Glu Lys Met Leu Thr Asn Trp Phe Thr
      20      25      30
Phe Leu Leu Tyr Lys Phe Leu Lys Glu Ser Ala Gly Glu Pro Leu Phe
      35      40      45
Met Leu Tyr Cys Ala Ile Lys His Gln Met Glu Lys Gly Pro Ile Asp
      50      55      60
Ala Ile Thr Gly Glu Ala Arg Tyr Ser Leu Ser Glu Asp Lys Leu Ile
      65      70      75      80
Arg His Leu Ile Asp Tyr Lys Thr Leu Thr Leu Asn Cys Val Asn Pro
      85      90      95
Glu Asn Glu Asn Ala Pro Glu Val Pro Val Lys Gly Leu Asp Cys Asp
      100      105      110
Thr Gly Thr Gln Ala Lys Glu Lys Leu Leu Asp Ala Ala Tyr Lys Gly
      115      120      125
Val Pro Tyr Ser Gln Arg Pro Lys Ala Ala Asp Met Asp Leu Glu Trp
      130      135      140
Arg Gln Gly Arg Met Ala Arg Ile Ile Leu Gln Asp Glu Asp Val Thr
145      150      155      160
Thr Lys Ile Asp Asn Asp Trp Lys Arg Leu Asn Thr Leu Ala His Tyr
      165      170      175
Gln Val Thr Asp Gly Ser Ser Val Ala Leu Val Pro Lys Gln Thr Ser
      180      185      190
Ala Tyr Asn Ile Ser Asn Ser Ser Thr Phe Thr Lys Ser Leu Ser Arg
      195      200      205
Tyr Glu Ser Met Leu Arg Thr Ala Ser Ser Pro Asp Ser Leu Arg Ser
      210      215      220
Arg Thr Pro Met Ile Thr Pro Asp Leu Glu Ser Gly Thr Lys Leu Trp
225      230      235      240
His Leu Val Lys Asn His Asp His Leu Asp Gln Arg Glu Gly Asp Arg
      245      250      255
Gly Ser Lys Met Val Ser Glu Ile Tyr Leu Thr Arg Leu Leu Ala Thr
      260      265      270
Lys Gly Thr Leu Gln Lys Phe Val Asp Asp Leu Phe Glu Thr Ile Phe
      275      280      285

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Ser Thr Ala His Arg Gly Ser Ala Leu Pro Leu Ala Ile Lys Tyr Met
 290          295          300
Phe Asp Phe Leu Asp Glu Gln Ala Asp Lys His Gln Ile His Asp Ala
305          310          315          320
Asp Val Arg His Thr Trp Lys Ser Asn Cys Leu Pro Leu Arg Phe Trp
          325          330          335
Val Asn Val Ile Lys Asn Pro Gln Phe Val Phe Asp Ile His Lys Asn
          340          345          350
Ser Ile Thr Asp Ala Cys Leu Ser Val Val
          355          360          362

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<210> 2124
<211> 245
<212> PRT
<213> Homo sapiens

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<400> 2124
Lys Thr Ala Val Lys Lys Arg Asn Leu Asn Pro Val Phe Asn Glu Thr
 1          5          10          15
Leu Arg Tyr Ser Val Pro Gln Ala Glu Leu Gln Gly Arg Val Leu Ser
          20          25          30
Leu Ser Val Trp His Arg Glu Ser Leu Gly Arg Asn Ile Phe Leu Gly
          35          40          45
Glu Val Glu Val Pro Leu Asp Thr Trp Asp Trp Gly Ser Glu Pro Thr
          50          55          60
Trp Leu Pro Leu Gln Pro Arg Val Pro Pro Ser Pro Asp Asp Leu Pro
          65          70          75          80
Ser Arg Gly Leu Leu Ala Leu Ser Leu Lys Tyr Val Pro Ala Gly Ser
          85          90          95
Glu Gly Ala Gly Leu Pro Pro Ser Gly Glu Leu His Phe Trp Val Lys
          100          105          110
Glu Ala Arg Asp Leu Leu Pro Leu Arg Ala Gly Ser Leu Asp Thr Tyr
          115          120          125
Val Gln Cys Phe Val Leu Pro Asp Asp Ser Arg Ala Ser Arg Gln Arg
          130          135          140
Thr Arg Val Val Arg Arg Ser Leu Ser Pro Val Phe Asn His Thr Met
          145          150          155          160
Val Tyr Asp Gly Phe Gly Pro Ala Asp Leu Arg Gln Ala Cys Ala Glu
          165          170          175
Leu Ser Leu Trp Asp His Gly Ala Leu Ala Asn Arg Gln Leu Gly Gly
          180          185          190
Thr Arg Leu Ser Leu Gly Thr Gly Ser Ser Tyr Gly Leu Gln Val Pro
          195          200          205
Trp Met Asp Ser Thr Pro Glu Lys Gln Leu Trp Gln Ala Leu Leu
          210          215          220
Glu Gln Pro Cys Glu Trp Val Asp Gly Leu Leu Pro Leu Arg Thr Asn
          225          230          235          240
Leu Ala Pro Arg Thr
          245

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<210> 2125
<211> 131
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(129)
<223> Xaa = any amino acid or nothing

```

<400> 2125
 Ala Arg Gly Ile Gly Ser Leu Gly Arg Asp His Ser Gly Ser Gly Gly
 1 5 10 15
 Gly Thr Gly Met Ala Gly Ala Trp Val Arg Lys Ala Ala Asp Tyr Val
 20 25 30
 Arg Ser Lys Asp Phe Arg Asp Tyr Leu Met Ser Thr His Phe Trp Gly
 35 40 45
 Pro Val Ala Asn Trp Gly Leu Pro Ile Ala Ala Ile Thr Asp Met Lys
 50 55 60
 Lys Ser Pro Glu Ile Ile Ser Arg Arg Met Thr Phe Ala Leu Xaa Cys
 65 70 75 80
 Tyr Ser Leu Thr Phe Val Arg Phe Ala His Tyr Val Gln Pro Trp Asn
 85 90 95
 Trp Leu Met Leu Gly Cys His Thr Ala Val Asp Phe Asp Gln Leu Ile
 100 105 110
 Ser Ser Met Pro Cys Ile Ser His Gly Met Thr Ala Ser Ala Ser Ala
 115 120 125
 Leu
 129

<210> 2126
 <211> 276
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(275)
 <223> Xaa = any amino acid or nothing

<400> 2126
 Phe Arg Gly Tyr Trp Gly Val Arg Glu Ala Phe Thr Asp Ala Ser Trp
 1 5 10 15
 Ser Gly Gly Leu Gly Pro Gly Lys Pro Gly Met Lys Ile Thr Arg Gln
 20 25 30
 Lys His Ala Lys Lys His Leu Gly Phe Phe Arg Asn Asn Phe Gly Val
 35 40 45
 Arg Glu Pro Tyr Gln Ile Leu Leu Asp Gly Thr Phe Cys Gln Ala Ala
 50 55 60
 Leu Arg Gly Arg Ile Gln Leu Arg Glu Gln Leu Pro Arg Tyr Leu Met
 65 70 75 80
 Gly Glu Thr Gln Leu Cys Thr Thr Arg Cys Val Leu Lys Glu Leu Glu
 85 90 95
 Thr Leu Gly Lys Asp Leu Tyr Gly Ala Lys Leu Ile Ala Gln Lys Cys
 100 105 110
 Gln Val Arg Asn Cys Pro His Phe Lys Asn Ala Val Ser Gly Ser Glu
 115 120 125
 Cys Leu Leu Ser Met Val Glu Gly Asn Pro His His Tyr Phe Val
 130 135 140
 Ala Thr Gln Asp Gln Asn Leu Ser Val Lys Val Lys Lys Lys Pro Gly
 145 150 155 160
 Val Pro Leu Met Phe Ile Ile Gln Asn Thr Met Val Leu Asp Lys Pro
 165 170 175
 Ser Pro Lys Thr Ile Ala Phe Val Lys Ala Val Glu Ser Gly Arg Leu
 180 185 190
 Ser Gln Cys Met Arg Lys Lys Val Ser Asn Ile Ser Lys Arg Asn Arg
 195 200 205
 Val Xaa Xaa Lys Thr Leu Asn Arg Gly Arg Arg Lys Lys Arg Lys Lys
 210 215 220
 Ile Ser Gly Pro Asn Pro Leu Ser Cys Leu Lys Lys Lys Lys Ala
 225 230 235 240

```
<210> 2127
<211> 123
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(122)
<223> Xaa = any amino acid or nothing
```

```
<210> 2128
<211> 169
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(162)
<223> Xaa = any amino acid or nothing
```

1188

```

Ile Leu Ala Leu Leu Lys Lys Gln Thr Xaa Arg Ala Leu Leu Asn Trp
    115          120          125
Pro Leu Gly Ser Leu Arg Arg Ser Ser Cys Phe Gly Gly Gln Asp Gly
    130          135          140
Gln Asp Leu Lys Pro Arg Ser Gly Leu Gly Cys Asn Ser Phe Arg Tyr
145          150          155          160
Arg Arg
    162

```

```

<210> 2129
<211> 130
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(129)
<223> Xaa = any amino acid or nothing

```

```

<400> 2129
Ala Arg Ala Pro Ser Pro Ser Phe Ser Val Arg Asp Val Glu Leu Ser
 1          5          10          15
Asp Pro Ala Arg Glu Arg Gly Glu Met Pro Val Ala Val Gly Pro Tyr
    20          25          30
Gly Gln Ser Gln Pro Ser Cys Phe Asp Arg Val Lys Met Gly Phe Val
    35          40          45
Met Gly Cys Ala Val Gly Met Ala Ala Gly Ala Leu Phe Gly Thr Phe
    50          55          60
Ser Cys Leu Ser Ser Ile Leu Val Ser Ser Ser Gly Ser Gly Met Arg
 65          70          75          80
Gly Arg Glu Leu Met Gly Gly Ile Gly Lys Thr Met Met Gln Ser Gly
    85          90          95
Gly Thr Phe Gly Thr Phe Met Ala Ile Gly Met Gly Ile Arg Cys Xaa
    100          105          110
Pro Trp Leu Pro Thr Thr Ser Val Pro Ser His Gln Ser Gln Pro Met
    115          120          125
Tyr
129

```

```

<210> 2130
<211> 326
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(322)
<223> Xaa = any amino acid or nothing

```

```

<400> 2130
Arg Ile Met Arg Met Cys Asp Arg Gly Ile Gln Met Leu Ile Thr Thr
 1          5          10          15
Val Gly Ala Phe Ala Ala Phe Ser Leu Met Thr Ile Ala Val Gly Thr
    20          25          30
Asp Tyr Trp Leu Tyr Ser Arg Gly Val Cys Arg Thr Lys Ser Thr Ser
    35          40          45
Asp Asn Glu Thr Ser Arg Lys Asn Glu Glu Val Met Thr His Ser Gly
    50          55          60
Leu Trp Arg Thr Cys Cys Leu Glu Gly Ala Phe Arg Gly Val Cys Lys
 65          70          75          80

```

```
<210> 2131
<211> 173
<212> PRT
<213> Homo sapiens
```

<400> 2131																
Arg	Ile	Ile	Lys	Val	Lys	Asp	Leu	Lys	Gln	Thr	Leu	Ala	Ile	Lys	Thr	
1				5					10					15		
Ala	Tyr	Pro	Arg	Cys	Lys	Cys	Leu	Val	Glu	Met	Asp	Gln	Ile	Phe	His	
			20					25					30			
Leu	Gln	Val	Lys	Gln	Lys	Gln	Leu	Ala	Cys	Leu	Cys	Thr	Trp	Gln	Ala	
		35					40					45				
Arg	Asp	Pro	Asp	Cys	Pro	Pro	Ser	Thr	Lys	Val	Val	Leu	Leu	Val	Gly	
	50					55					60					
Pro	Gly	Met	Gly	Cys	Met	Val	Ala	Leu	Phe	Gln	Asp	Ser	Ile	Ala	Trp	
65					70					75					80	
Ser	Asn	Lys	Ser	Met	Pro	Ser	Ser	Leu	Ser	Ala	Ile	Ser	Gln	Ser	Pro	
				85					90					95		
Cys	Gln	Val	Gln	Ala	Pro	Glu	Gly	Pro	Ser	Ser	Phe	His	Leu	Pro	Thr	
			100					105					110			
Leu	Ser	Phe	Thr	Thr	Cys	Leu	Ser	Trp	Gln	Gly	Gly	Asp	Leu	Glu	Phe	
		115					120					125				
Leu	Gly	Asp	Leu	Lys	Gly	Cys	Ser	Glu	Leu	Lys	Asn	Phe	Gln	Glu	Leu	
	130					135					140					
Ile	Thr	Gln	Ser	Ala	Leu	Val	His	Pro	Lys	Ala	Asp	Val	Trp	Trp	Tyr	
145					150					155					160	
Cys	Gly	Arg	Pro	Leu	Leu	Gly	Thr	Leu	Pro	Ser	Asn					
				165					170		172					

<210> 2132
 <211> 312
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(310)
 <223> Xaa = any amino acid or nothing

<400> 2132
 Trp Ile Ser Leu Pro Ser Ser Leu Leu Cys Arg Lys Asn Gly Ser Ser
 1 5 10 15
 Ala Glu Asp Asp Arg Arg Gly Glu Pro Ser Ala Glu Glu Ala Glu Gly
 20 25 30
 Glu Arg Glu Asp Trp Gly Ile Gly Ser Ala Xaa Ser Val Gly Ala Val
 35 40 45
 Ser Lys Val Pro Ser Ala Arg Phe Xaa Arg Thr Tyr Pro Ser Glu Asp
 50 55 60
 Glu Glu Glu Val Thr His Gln Lys Ser Ser Ser Ser Asp Ser Asn Ser
 65 70 75 80
 Glu Glu His Arg Lys Lys Lys Thr Ser Arg Ser Arg Asn Lys Lys Lys
 85 90 95
 Arg Lys Asn Lys Ser Ser Lys Arg Lys His Arg Lys Tyr Ser Asp Ser
 100 105 110
 Asp Ser Asn Ser Glu Ser Asp Thr Asn Ser Asp Ser Asp Asp Asp Lys
 115 120 125
 Lys Arg Val Lys Ala Lys Lys Lys Lys Lys Lys Lys His Lys Thr
 130 135 140
 Lys Lys Lys Lys Asn Lys Lys Thr Lys Lys Glu Ser Ser Asp Ser Ser
 145 150 155 160
 Cys Lys Asp Ser Glu Glu Asp Leu Ser Glu Ala Thr Trp Met Glu Gln
 165 170 175
 Pro Asn Val Ala Asp Thr Met Asp Leu Ile Gly Pro Glu Ala Pro Ile
 180 185 190
 Ile His Thr Ser Gln Asp Glu Lys Pro Leu Lys Tyr Gly His Ala Leu
 195 200 205
 Leu Pro Gly Glu Gly Ala Ala Met Ala Glu Tyr Val Lys Ala Gly Lys
 210 215 220
 Arg Ile Pro Arg Arg Gly Glu Ile Gly Leu Thr Ser Glu Glu Ile Gly
 225 230 235 240
 Ser Phe Glu Cys Ser Gly Tyr Val Met Ser Gly Ser Arg His Arg Arg
 245 250 255
 Met Glu Ala Val Arg Leu Arg Lys Glu Asn Gln Ile Tyr Ser Ala Asp
 260 265 270
 Glu Lys Arg Ala Leu Ala Ser Phe Asn Gln Glu Glu Arg Arg Lys Arg
 275 280 285
 Glu Ser Lys Ile Leu Ala Ser Phe Arg Glu Met Val His Lys Lys Thr
 290 295 300
 Lys Gly Lys Asp Asp Lys
 305 310

<210> 2133
 <211> 278
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(276)

<223> Xaa = any amino acid or nothing

<400> 2133

```

Trp Asp Asp Tyr Pro Gln Gly Ala Leu Arg Arg Arg Glu Ala Ala Glu
 1          5          10          15
Gly Leu His Phe Leu Gly Pro Pro Gly Arg Val Arg Gly Gln Leu Arg
          20          25          30
Gly Ile Thr Gly Pro Ala Trp Tyr Cys His Ser Pro Ser His Ser Leu
          35          40          45
Leu Ser Ala Phe Cys His Leu Pro Thr Pro Ser Arg Cys Pro Ala Met
          50          55          60
Ala Arg Pro Pro Val Pro Gly Ser Val Val Val Pro Asn Trp His Glu
          65          70          75          80
Ser Arg Arg Gly Gln Gly Val Pro Gly Leu His Ser Ala Gln Glu Pro
          85          90          95
Pro Ala Gly Val Trp Ala Ala Xaa Ala Ala Ser Ala Ala Ala Leu
          100          105          110
Ser Ile Asp Thr Ala Ser Tyr Lys Ile Phe Val Ser Gly Lys Ser Gly
          115          120          125
Val Gly Lys Thr Ala Leu Val Ala Lys Leu Ala Gly Leu Glu Val Pro
          130          135          140
Val Val His His Glu Thr Thr Gly Ile Gln Thr Thr Val Val Phe Trp
          145          150          155          160
Pro Ala Lys Leu Gln Ala Ser Ser Arg Val Val Met Phe Arg Phe Glu
          165          170          175
Phe Trp Asp Cys Gly Glu Ser Ala Leu Lys Lys Phe Asp His Met Leu
          180          185          190
Leu Ala Cys Met Glu Asn Thr Asp Ala Phe Leu Phe Leu Phe Ser Phe
          195          200          205
Thr Asp Arg Ala Ser Phe Glu Asp Leu Pro Gly Gln Leu Ala Arg Ile
          210          215          220
Ala Gly Glu Ala Pro Gly Val Val Arg Met Val Ile Gly Ser Lys Phe
          225          230          235          240
Asp Gln Tyr Met His Thr Asp Val Pro Glu Arg Asp Leu Thr Ala Phe
          245          250          255
Arg Gln Ala Trp Glu Leu Pro Leu Leu Arg Val Lys Ser Val Pro Gly
          260          265          270
Arg Arg Leu Gly
          275 276

```

<210> 2134

<211> 511

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(510)

<223> Xaa = any amino acid or nothing

<400> 2134

```

Gly Ser Ser Pro Asp Pro Ala Ser Leu Ile Thr Met Lys Asn Gln Asp
 1          5          10          15
Lys Lys Asn Gly Ala Ala Lys Gln Ser Asn Pro Lys Ser Ser Pro Gly
          20          25          30
Gln Pro Glu Ala Gly Pro Glu Gly Ala Gln Glu Arg Pro Ser Gln Ala
          35          40          45
Ala Pro Ala Val Glu Ala Glu Gly Pro Gly Ser Ser Gln Ala Pro Arg
          50          55          60
Lys Pro Glu Gly Ala Gln Ala Arg Thr Ala Gln Ser Gly Ala Leu Arg
          65          70          75          80

```

```

Asp Val Ser Glu Glu Leu Ser Arg Gln Leu Glu Asp Ile Leu Ser Thr
      85      90      95
Tyr Cys Val Asp Asn Asn Gln Gly Gly Pro Gly Glu Asp Gly Ala Gln
      100      105      110
Gly Glu Pro Ala Glu Pro Glu Asp Ala Glu Lys Ser Arg Thr Tyr Val
      115      120      125
Ala Arg Asn Gly Glu Pro Glu Pro Thr Pro Val Val Asn Gly Glu Lys
      130      135      140
Glu Pro Ser Lys Gly Asp Pro Asn Thr Glu Glu Ile Arg Gln Ser Asp
      145      150      155      160
Glu Val Gly Asp Arg Asp His Arg Arg Pro Gln Glu Lys Lys Lys Ala
      165      170      175
Lys Gly Leu Gly Lys Glu Ile Thr Leu Leu Met Gln Thr Leu Asn Thr
      180      185      190
Leu Ser Thr Pro Glu Glu Lys Leu Ala Ala Leu Cys Lys Lys Tyr Ala
      195      200      205
Glu Leu Leu Glu Glu His Arg Asn Ser Gln Lys Gln Met Lys Leu Leu
      210      215      220
Gln Lys Lys Gln Ser Gln Leu Val Gln Glu Lys Asp His Leu Arg Gly
      225      230      235      240
Glu His Ser Lys Ala Val Leu Ala Arg Ser Lys Leu Glu Ser Leu Cys
      245      250      255
Arg Glu Leu Gln Arg His Asn Arg Ser Leu Lys Glu Glu Gly Val Gln
      260      265      270
Arg Ala Arg Glu Glu Glu Glu Lys Arg Lys Glu Val Thr Ser His Phe
      275      280      285
Gln Val Thr Leu Asn Asp Ile Gln Leu Gln Met Glu Gln His Asn Glu
      290      295      300
Arg Asn Ser Lys Leu Arg Gln Glu Asn Met Glu Leu Ala Glu Arg Leu
      305      310      315      320
Lys Lys Leu Ile Glu Gln Tyr Glu Leu Arg Glu Glu His Ile Asp Lys
      325      330      335
Val Phe Lys His Lys Asp Leu Gln Gln Gln Leu Val Asp Ala Lys Leu
      340      345      350
Gln Gln Ala Gln Glu Met Leu Lys Glu Ala Glu Glu Arg His Gln Arg
      355      360      365
Glu Lys Asp Phe Leu Leu Lys Glu Ala Val Glu Ser Gln Arg Met Cys
      370      375      380
Glu Leu Met Lys Gln Gln Glu Thr His Leu Lys Gln Gln Leu Ala Leu
      385      390      395      400
Tyr Thr Glu Lys Phe Glu Glu Phe Gln Asn Thr Leu Ser Lys Ser Ser
      405      410      415
Glu Val Phe Thr Thr Phe Lys Gln Glu Met Glu Lys Met Thr Lys Lys
      420      425      430
Ile Lys Lys Leu Glu Lys Glu Thr Thr Met Tyr Arg Ser Arg Trp Glu
      435      440      445
Ser Ser Asn Lys Ala Leu Leu Glu Met Ala Glu Glu Lys Thr Val Arg
      450      455      460
Asp Lys Glu Leu Glu Gly Leu Gln Val Lys Ile Gln Arg Leu Glu Lys
      465      470      475      480
Leu Cys Arg Ala Leu Gln Thr Gly Ala Gln Xaa Pro Val Arg Gly Gln
      485      490      495
Arg Trp Gly Ser His Arg Thr Ser Ala Val Arg Ile Phe Ser
      500      505      510

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<210> 2135
<211> 205
<212> PRT
<213> Homo sapiens

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<221> misc_feature
<222> (1)...(201)

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<223> Xaa = any amino acid or nothing

<400> 2135
 Ser Pro Gln Gly Pro Leu Leu Arg Ser Val Ser Pro Val Ser Ala Gly
 1 5 10 15
 Ala Ser Ser Val Thr Pro Gly Gly Ala Gln Pro Gly Val Thr Thr
 20 25 30
 Pro Pro Ser Leu Val Ala Val Ala Pro Ala Pro Gly Ser Ala Ala Gly
 35 40 45
 Pro Ala Ala Gly Trp Gln Xaa His Ala Gly Cys Arg Trp Thr Lys Leu
 50 55 60
 Pro Trp Ser Trp Gly Met Arg Pro Met Lys Ile Phe Phe Ser Glu Glu
 65 70 75 80
 Tyr Arg Ser Ile Ser Thr Arg Ile Ser His Asp Ala Leu Xaa Glu Lys
 85 90 95
 Cys Thr Gln Pro Ala Lys Pro Leu Ser Met Ile Arg Thr Gly Ser Ser
 100 105 110
 Val Ser Pro Gly Pro Leu Val Lys Trp Asn Trp Thr Arg Arg Glu Phe
 115 120 125
 Arg Asn Ser Gly Thr Arg Val Val Ser Ser Cys Cys Gly Met Ser Cys
 130 135 140
 Met Tyr Ser Phe Leu Gly His Cys Ser Val Ser Gln Asp Leu Pro Leu
 145 150 155 160
 Val His Val Asp Val Gly Trp Gln Pro Pro Leu Gly Pro Thr Val Gly
 165 170 175
 Leu Arg Pro Gly Leu Leu Pro Leu His Asp Thr Thr Pro Cys Gln Lys
 180 185 190
 Leu Val Val Asp Asp Leu Asp Trp Ala
 195 200 201

<210> 2136

<211> 141

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(140)

<223> Xaa = any amino acid or nothing

<400> 2136
 Arg Trp Leu Pro Val Ala Glu Cys Asp Ser Ser Cys Val Gly Cys Thr
 1 5 10 15
 Gly Glu Gly Pro Gly Asn Cys Lys Glu Cys Ile Ser Gly Tyr Ala Arg
 20 25 30
 Glu His Gly Gln Cys Ala Asp Val Asp Glu Cys Ser Leu Ala Glu Lys
 35 40 45
 Thr Cys Val Arg Lys Asn Glu Asn Cys Tyr Asn Thr Pro Gly Ser Tyr
 50 55 60
 Val Cys Val Cys Pro Asp Gly Phe Glu Glu Thr Arg Arg Cys Leu Cys
 65 70 75 80
 Ala Ala Gly Arg Gly Xaa Ser His Arg Arg Arg Lys Pro Asp Thr Ala
 85 90 95
 Ala Leu Pro Arg Arg Pro Val Met Cys Arg Thr Tyr Pro Leu Asn Tyr
 100 105 110
 Ser Glu Gly Cys Pro Val Glu Asn Val Ala Leu Arg Met Pro Ser Pro
 115 120 125
 Ala Val Asp Ser Gly Gly Glu Arg Leu Pro Ala Leu
 130 135 140

<210> 2137
 <211> 494
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(489)
 <223> Xaa = any amino acid or nothing

<400> 2137
 Asp Tyr Val Leu Thr Ala Glu Leu His Arg Gln Arg Ser Pro Gly Val
 1 5 10 15
 Ser Phe Gly Leu Ser Val Phe Asn Leu Met Asn Ala Ile Met Gly Ser
 20 25 30
 Gly Ile Leu Gly Leu Ala Tyr Val Met Ala Asn Thr Gly Val Phe Gly
 35 40 45
 Phe Ser Phe Leu Leu Leu Thr Val Ala Leu Leu Ala Ser Tyr Ser Val
 50 55 60
 His Leu Leu Leu Ser Met Cys Ile Gln Thr Ala Tyr Leu Gly Pro Xaa
 65 70 75 80
 Thr Asn Tyr Phe Met Val Leu Pro Ala His Xaa Leu Thr Cys Leu Pro
 85 90 95
 Leu Ile Glu Phe Leu Gln Ser Leu Xaa Asn Ser Leu Xaa Ala Val Thr
 100 105 110
 Ser Tyr Glu Asp Leu Gly Leu Phe Ala Phe Gly Leu Pro Gly Lys Leu
 115 120 125
 Val Val Ala Gly Thr Ile Ile Ile Gln Asn Ile Gly Ala Met Ser Ser
 130 135 140
 Tyr Leu Leu Ile Ile Lys Thr Glu Leu Pro Ala Ala Ile Ala Glu Phe
 145 150 155 160
 Leu Thr Gly Asp Tyr Ser Arg Tyr Trp Tyr Leu Asp Gly Gln Thr Leu
 165 170 175
 Leu Ile Ile Ile Cys Val Gly Ile Val Phe Pro Leu Ala Leu Leu Pro
 180 185 190
 Lys Ile Gly Phe Leu Gly Tyr Thr Ser Ser Leu Ser Phe Phe Met
 195 200 205
 Met Phe Phe Ala Leu Val Val Ile Ile Lys Lys Trp Ser Ile Pro Cys
 210 215 220
 Pro Leu Thr Leu Asn Tyr Val Glu Lys Gly Phe Gln Ile Ser Asn Val
 225 230 235 240
 Thr Asp Asp Cys Lys Pro Lys Leu Phe His Phe Ser Lys Glu Ser Ala
 245 250 255
 Tyr Ala Leu Pro Thr Met Ala Phe Ser Phe Leu Cys His Thr Ser Ile
 260 265 270
 Leu Pro Ile Tyr Cys Glu Leu Gln Ser Pro Ser Lys Lys Arg Met Gln
 275 280 285
 Asn Val Thr Asn Thr Ala Ile Ala Leu Ser Phe Leu Ile Tyr Phe Ile
 290 295 300
 Ser Ala Leu Phe Gly Tyr Leu Thr Phe Tyr Asp Gly Thr Thr Lys Ala
 305 310 315 320
 Gln Arg Gly Glu Val Thr Cys His Arg Ile Lys Asp Lys Val Glu Ser
 325 330 335
 Glu Leu Leu Lys Gly Xaa Xaa Xaa Ile Pro Xaa Ser His Asp Val Val
 340 345 350
 Val Met Thr Val Lys Leu Cys Ile Leu Phe Ala Val Leu Leu Thr Val
 355 360 365
 Pro Leu Ile His Phe Pro Ala Arg Lys Ala Val Thr Met Met Phe Phe
 370 375 380
 Ser Asn Phe Pro Phe Ser Trp Ile Arg His Phe Leu Ile Thr Leu Ala
 385 390 395 400
 Leu Asn Ile Ile Ile Val Leu Leu Ala Ile Tyr Val Pro Asp Ile Arg
 405 410 415

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Asn Val Phe Gly Val Val Gly Ala Ser Thr Ser Thr Cys Leu Ile Phe
      420      425      430
Ile Phe Pro Gly Leu Phe Tyr Leu Lys Leu Ser Arg Glu Asp Phe Leu
      435      440      445
Ser Trp Lys Lys Leu Gly Val Gly Cys Phe Cys Leu Leu Ser Phe Lys
      450      455      460
Thr Ser Ile Leu Arg Asn Ser Leu Ser Val Tyr Ile Ile Leu Pro Ala
      465      470      475      480
Ser Arg Lys Ser Ile Tyr Phe Lys Ile
      485      489

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<210> 2138
<211> 2215
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(2204)
<223> Xaa = any amino acid or nothing

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<400> 2138
Pro Arg Ser Leu Cys Phe Ser Leu Trp Ala Glu Ala Ala Val Leu Ala
 1      5      10      15
Asp Gly Gly Leu Arg Arg Arg Arg Arg Leu Leu Arg Gly Thr Met Ser
      20      25      30
Ala Ser Phe Val Pro Asn Gly Ala Ser Leu Glu Asp Cys His Cys Asn
      35      40      45
Leu Phe Cys Leu Ala Asp Leu Thr Gly Ile Lys Trp Lys Lys Tyr Val
      50      55      60
Trp Gln Gly Pro Thr Ser Ala Pro Ile Leu Phe Pro Val Thr Glu Glu
      65      70      75      80
Asp Pro Ile Leu Ser Ser Phe Ser Arg Cys Leu Lys Ala Asp Val Leu
      85      90      95
Gly Val Trp Arg Arg Asp Gln Arg Pro Glu Arg Arg Glu Leu Xaa Ile
      100      105      110
Phe Trp Gly Gly Glu Asp Pro Val Leu Leu Thr Leu Phe Thr Met Thr
      115      120      125
Tyr Gln Lys Lys Lys Met Glu Cys Gly Arg Met Asp Phe Pro Met Asn
      130      135      140
Ala Val Leu Cys Phe Ser Lys Ala Val His Asn Leu Leu Glu Arg Cys
      145      150      155      160
Leu Met Asn Arg Asn Phe Val Arg Ile Gly Lys Trp Phe Val Lys Pro
      165      170      175
Tyr Glu Lys Asp Glu Lys Pro Ile Asn Lys Ser Glu His Leu Ser Cys
      180      185      190
Ser Phe Thr Phe Phe Leu His Gly Asp Ser Asn Val Cys Thr Ser Val
      195      200      205
Glu Ile Asn Gln His Gln Pro Val Tyr Leu Leu Ser Glu Glu His Ile
      210      215      220
Thr Leu Ala Gln Gln Ser Asn Ser Pro Phe Gln Val Ile Leu Cys Pro
      225      230      235      240
Phe Gly Leu Asn Gly Thr Leu Thr Gly Gln Ala Phe Lys Met Ser Asp
      245      250      255
Ser Ala Thr Lys Lys Leu Ile Gly Glu Trp Lys Gln Phe Tyr Pro Ile
      260      265      270
Ser Cys Cys Leu Lys Glu Met Ser Glu Glu Lys Gln Glu Asp Met Asp
      275      280      285
Trp Glu Asp Asp Ser Leu Ala Val Glu Val Leu Val Ala Gly Val
      290      295      300
Arg Met Ile Tyr Pro Ala Cys Phe Val Leu Val Pro Gln Ser Asp Ile
      305      310      315      320

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Pro Thr Pro Ser Pro Val Gly Ser Thr His Cys Ser Ser Ser Cys Leu
      325      330      335
Gly Val His Gln Val Pro Ala Ser Thr Arg Asp Pro Ala Met Ser Ser
      340      345      350
Val Thr Leu Thr Pro Pro Thr Ser Pro Glu Glu Val Gln Thr Val Asp
      355      360      365
Pro Gln Ser Val Gln Lys Trp Val Lys Phe Ser Ser Val Ser Asp Gly
      370      375      380
Phe Asn Ser Asp Ser Thr Ser His His Gly Gly Lys Ile Pro Arg Lys
385      390      395      400
Leu Ala Asn His Val Val Asp Arg Val Trp Gln Glu Cys Asn Met Asn
      405      410      415
Arg Ala Gln Asn Lys Arg Lys Tyr Ser Ala Ser Ser Gly Gly Leu Cys
      420      425      430
Glu Glu Ala Thr Ala Ala Lys Val Ala Ser Trp Asp Phe Val Glu Ala
      435      440      445
Thr Gln Arg Thr Asn Cys Ser Cys Leu Arg His Lys Asn Leu Lys Ser
      450      455      460
Arg Asn Ala Gly Gln Gln Gly Gln Ala Pro Ser Leu Gly Gln Gln Gln
465      470      475      480
Gln Ile Leu Pro Lys His Lys Thr Asn Glu Lys Gln Glu Lys Ser Glu
      485      490      495
Lys Pro Gln Lys Arg Pro Leu Thr Pro Phe His His Arg Val Ser Val
      500      505      510
Ser Asp Asp Val Gly Met Asp Ala Asp Ser Ala Ser Gln Arg Leu Val
      515      520      525
Ile Ser Ala Pro Asp Ser Gln Val Arg Phe Ser Asn Ile Arg Thr Asn
      530      535      540
Asp Val Ala Lys Thr Pro Gln Met His Gly Thr Glu Met Ala Asn Ser
545      550      555      560
Pro Gln Pro Pro Pro Leu Ser Pro His Pro Cys Asp Val Val Asp Glu
      565      570      575
Gly Val Thr Lys Thr Pro Ser Thr Pro Gln Ser Gln His Phe Tyr Gln
      580      585      590
Met Pro Thr Pro Asp Pro Leu Val Pro Ser Lys Pro Met Glu Asp Arg
      595      600      605
Ile Asp Ser Leu Ser Gln Ser Phe Pro Pro Gln Tyr Gln Glu Ala Val
      610      615      620
Glu Pro Thr Val Tyr Val Gly Thr Ala Val Asn Leu Glu Glu Asp Glu
625      630      635      640
Ala Asn Ile Ala Trp Lys Tyr Tyr Lys Phe Pro Lys Lys Lys Asp Val
      645      650      655
Glu Phe Leu Pro Pro Gln Leu Pro Ser Asp Lys Phe Lys Asp Asp Pro
      660      665      670
Val Gly Pro Phe Gly Gln Glu Ser Val Thr Ser Val Thr Glu Leu Met
      675      680      685
Val Gln Cys Lys Lys Pro Leu Lys Val Ser Asp Glu Leu Val Gln Gln
      690      695      700
Tyr Gln Ile Lys Asn Gln Cys Leu Ser Ala Ile Ala Ser Asp Ala Glu
705      710      715      720
Gln Glu Pro Lys Ile Asp Pro Tyr Ala Phe Val Glu Gly Asp Glu Glu
      725      730      735
Phe Leu Phe Pro Asp Lys Lys Asp Arg Gln Asn Ser Glu Arg Glu Ala
      740      745      750
Gly Lys Lys His Lys Val Glu Asp Gly Thr Ser Ser Val Thr Val Leu
      755      760      765
Ser His Glu Glu Asp Ala Met Ser Leu Phe Ser Pro Ser Ile Lys Gln
      770      775      780
Asp Ala Pro Arg Pro Thr Ser His Ala Arg Pro Pro Ser Thr Ser Leu
785      790      795      800
Ile Tyr Asp Ser Asp Leu Ala Val Ser Tyr Thr Asp Leu Asp Asn Leu
      805      810      815
Phe Asn Ser Asp Glu Asp Glu Leu Thr Pro Gly Ser Lys Arg Ser Ala
      820      825      830

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Asn Gly Ser Asp Asp Lys Ala Ser Cys Lys Glu Ser Lys Thr Gly Asn
 835 840 845
 Leu Asp Pro Leu Ser Cys Ile Ser Thr Ala Asp Leu His Lys Met Tyr
 850 855 860
 Pro Thr Pro Pro Ser Leu Glu Gln His Ile Met Gly Phe Ser Pro Met
 865 870 875 880
 Asn Met Asn Asn Lys Glu Tyr Gly Ser Met Asp Thr Thr Pro Gly Gly
 885 890 895
 Thr Val Leu Glu Gly Asn Ser Ser Ser Ile Gly Ala Gln Phe Lys Ile
 900 905 910
 Glu Val Asp Glu Gly Phe Cys Ser Pro Lys Pro Ser Glu Ile Lys Asp
 915 920 925
 Phe Ser Tyr Val Tyr Lys Pro Glu Asn Cys Gln Ile Leu Val Gly Cys
 930 935 940
 Ser Met Phe Ala Pro Leu Lys Thr Leu Pro Ser Gln Tyr Leu Pro Leu
 945 950 955 960
 Ile Lys Leu Pro Glu Glu Cys Ile Tyr Arg Gln Ser Trp Thr Val Gly
 965 970 975
 Lys Leu Glu Leu Ser Ser Gly Pro Ser Met Pro Phe Ile Lys Glu
 980 985 990
 Gly Asp Gly Ser Asn Met Asp Gln Glu Tyr Gly Thr Ala Tyr Thr Pro
 995 1000 1005
 Gln Thr His Thr Ser Cys Gly Met Pro Pro Ser Ser Ala Pro Pro Ser
 1010 1015 1020
 Asn Ser Gly Ala Gly Ile Leu Pro Ser Pro Ser Thr Pro Arg Phe Pro
 1025 1030 1035 1040
 Thr Pro Arg Thr Pro Arg Thr Pro Arg Thr Pro Arg Gly Ala Gly Gly
 1045 1050 1055
 Pro Ala Ser Ala Gln Gly Ser Val Lys Tyr Glu Asn Ser Asp Leu Tyr
 1060 1065 1070
 Ser Pro Ala Ser Thr Pro Ser Thr Cys Arg Pro Leu Asn Ser Val Glu
 1075 1080 1085
 Pro Ala Thr Val Pro Ser Ile Pro Glu Ala His Ser Leu Tyr Val Asn
 1090 1095 1100
 Leu Ile Leu Ser Glu Ser Val Met Asn Leu Phe Lys Asp Cys Asn Ser
 1105 1110 1115 1120
 Asp Ser Cys Cys Ile Cys Val Cys Asn Met Asn Ile Lys Gly Ala Asp
 1125 1130 1135
 Val Gly Val Tyr Ile Pro Asp Pro Thr Gln Glu Ala Gln Tyr Arg Cys
 1140 1145 1150
 Thr Cys Gly Phe Ser Ala Val Met Asn Arg Lys Phe Gly Asn Asn Ser
 1155 1160 1165
 Gly Leu Phe Phe Glu Asp Glu Leu Asp Ile Ile Gly Arg Asn Thr Asp
 1170 1175 1180
 Cys Gly Lys Glu Ala Glu Lys Arg Phe Glu Ala Leu Arg Ala Thr Ser
 1185 1190 1195 1200
 Ala Glu His Val Asn Gly Gly Leu Lys Glu Ser Glu Lys Leu Ser Asp
 1205 1210 1215
 Asp Leu Ile Leu Leu Gln Asp Gln Cys Thr Asn Leu Phe Ser Pro
 1220 1225 1230
 Phe Gly Ala Ala Asp Gln Asp Pro Phe Pro Lys Ser Gly Val Ile Ser
 1235 1240 1245
 Asn Trp Val Arg Val Glu Glu Arg Asp Cys Cys Asn Asp Cys Tyr Leu
 1250 1255 1260
 Ala Leu Glu His Gly Arg Gln Phe Met Asp Asn Met Ser Gly Gly Lys
 1265 1270 1275 1280
 Val Asp Glu Ala Leu Val Lys Ser Ser Cys Leu His Pro Trp Ser Lys
 1285 1290 1295
 Arg Asn Asp Val Ser Met Gln Cys Ser Gln Asp Ile Leu Arg Met Leu
 1300 1305 1310
 Leu Ser Leu Gln Pro Val Leu Gln Asp Ala Ile Gln Lys Lys Arg Thr
 1315 1320 1325
 Val Arg Pro Trp Gly Val Gln Gly Pro Leu Thr Trp Gln Gln Phe His
 1330 1335 1340

Lys Met Ala Gly Arg Gly Ser Tyr Gly Thr Asp Glu Ser Pro Glu Pro
 1345 1350 1355 1360
 Leu Pro Ile Pro Thr Phe Leu Leu Gly Tyr Asp Tyr Asp Tyr Leu Val
 1365 1370 1375
 Leu Ser Pro Phe Ala Leu Pro Tyr Trp Glu Arg Leu Met Leu Glu Pro
 1380 1385 1390
 Tyr Gly Ser Gln Arg Asp Ile Ala Tyr Val Val Leu Cys Pro Glu Asn
 1395 1400 1405
 Glu Ala Leu Leu Asn Gly Ala Lys Ser Phe Phe Arg Asp Leu Thr Ala
 1410 1415 1420
 Ile Tyr Glu Ser Cys Arg Leu Gly Gln His Arg Pro Val Ser Arg Leu
 1425 1430 1435 1440
 Leu Thr Asp Gly Ile Met Arg Val Gly Ser Thr Ala Ser Lys Lys Leu
 1445 1450 1455
 Ser Glu Lys Leu Val Ala Glu Trp Phe Ser Gln Ala Ala Asp Gly Asn
 1460 1465 1470
 Asn Glu Ala Phe Ser Lys Leu Lys Leu Tyr Ala Gln Val Cys Arg Tyr
 1475 1480 1485
 Asp Leu Gly Pro Tyr Leu Ala Ser Leu Pro Leu Asp Ser Ser Leu Leu
 1490 1495 1500
 Ser Gln Pro Asn Leu Val Ala Pro Thr Ser Gln Ser Leu Ile Thr Pro
 1505 1510 1515 1520
 Pro Gln Met Thr Asn Thr Gly Asn Ala Asn Thr Pro Ser Ala Thr Leu
 1525 1530 1535
 Ala Ser Ala Ala Ser Ser Thr Met Thr Val Thr Ser Gly Val Ala Ile
 1540 1545 1550
 Ser Thr Ser Val Ala Thr Ala Asn Ser Thr Leu Thr Thr Ala Ser Thr
 1555 1560 1565
 Ser Ser Ser Ser Ser Ser Asn Leu Asn Ser Gly Val Ser Ser Asn Lys
 1570 1575 1580
 Leu Pro Ser Phe Pro Pro Phe Gly Ser Met Asn Ser Asn Ala Ala Gly
 1585 1590 1595 1600
 Ser Met Ser Thr Gln Ala Asn Thr Val Gln Ser Gly Gln Leu Gly Gly
 1605 1610 1615
 Gln Gln Thr Ser Ala Leu Gln Thr Ala Gly Ile Ser Gly Glu Ser Ser
 1620 1625 1630
 Ser Leu Pro Thr Gln Pro His Pro Asp Val Ser Glu Ser Thr Met Asp
 1635 1640 1645
 Arg Asp Lys Val Gly Ile Pro Thr Asp Gly Asp Ser His Ala Val Thr
 1650 1655 1660
 Tyr Pro Pro Ala Ile Val Val Tyr Ile Ile Asp Pro Phe Thr Tyr Glu
 1665 1670 1675 1680
 Asn Thr Asp Glu Ser Thr Asn Ser Ser Ser Val Trp Thr Leu Gly Leu
 1685 1690 1695
 Leu Arg Cys Phe Leu Glu Met Val Gln Thr Leu Pro Pro His Ile Lys
 1700 1705 1710
 Ser Thr Val Ser Val Gln Ile Ile Pro Cys Gln Tyr Leu Leu Gln Pro
 1715 1720 1725
 Val Lys His Glu Asp Arg Glu Ile Tyr Pro Gln His Leu Lys Ser Leu
 1730 1735 1740
 Ala Phe Ser Ala Phe Thr Gln Cys Arg Arg Pro Leu Pro Thr Ser Thr
 1745 1750 1755 1760
 Asn Val Lys Thr Leu Thr Gly Phe Gly Pro Gly Leu Ala Met Glu Thr
 1765 1770 1775
 Ala Leu Arg Ser Pro Asp Arg Pro Glu Cys Ile Arg Leu Tyr Ala Pro
 1780 1785 1790
 Pro Phe Ile Leu Ala Pro Val Lys Asp Lys Gln Thr Glu Leu Gly Glu
 1795 1800 1805
 Thr Phe Gly Glu Ala Gly Gln Lys Tyr Asn Val Leu Phe Val Gly Tyr
 1810 1815 1820
 Cys Leu Ser His Asp Gln Arg Trp Ile Leu Ala Ser Cys Thr Asp Leu
 1825 1830 1835 1840
 Tyr Gly Glu Leu Leu Glu Thr Cys Ile Ile Asn Ile Asp Val Pro Asn
 1845 1850 1855

Arg Ala Arg Arg Lys Lys Ser Ser Ala Arg Lys Phe Gly Leu Gln Lys
 1860 1865 1870
 Leu Trp Glu Trp Cys Leu Gly Leu Val Gln Met Ser Ser Leu Pro Trp
 1875 1880 1885
 Arg Val Val Ile Gly Arg Leu Gly Arg Ile Gly His Gly Glu Leu Lys
 1890 1895 1900
 Asp Trp Ser Cys Leu Leu Ser Arg Arg Asn Leu Gln Ser Leu Ser Lys
 1905 1910 1915 1920
 Arg Leu Lys Asp Met Cys Arg Met Cys Gly Ile Ser Ala Ala Asp Ser
 1925 1930 1935
 Pro Ser Ile Leu Ser Ala Cys Leu Val Ala Met Glu Pro Gln Gly Ser
 1940 1945 1950
 Phe Val Ile Met Pro Asp Ser Val Ser Thr Gly Ser Val Phe Gly Arg
 1955 1960 1965
 Ser Thr Thr Leu Asn Met Gln Thr Ser Gln Leu Asn Thr Pro Gln Asp
 1970 1975 1980
 Thr Ser Cys Thr His Ile Leu Val Phe Pro Thr Ser Ala Ser Val Gln
 1985 1990 1995 2000
 Val Ala Ser Ala Thr Tyr Thr Thr Glu Asn Leu Asp Leu Ala Phe Asn
 2005 2010 2015
 Pro Asn Asn Asp Gly Ala Asp Gly Met Gly Ile Phe Asp Leu Leu Asp
 2020 2025 2030
 Thr Gly Asp Asp Leu Asp Pro Asp Ile Ile Asn Ile Leu Pro Ala Ser
 2035 2040 2045
 Pro Thr Gly Ser Pro Val His Ser Pro Gly Ser His Tyr Pro His Gly
 2050 2055 2060
 Gly Asp Ala Gly Lys Gly Gln Ser Thr Asp Arg Leu Leu Ser Thr Glu
 2065 2070 2075 2080
 Pro His Glu Glu Val Pro Asn Ile Leu Gln Gln Pro Leu Ala Leu Gly
 2085 2090 2095
 Tyr Phe Val Ser Thr Ala Lys Ala Gly Pro Leu Pro Asp Trp Phe Trp
 2100 2105 2110
 Ser Ala Cys Pro Gln Ala Gln Tyr Gln Cys Pro Leu Phe Leu Lys Ala
 2115 2120 2125
 Ser Leu His Leu His Val Pro Ser Val Gln Ser Asp Glu Leu Leu His
 2130 2135 2140
 Ser Lys His Ser His Pro Leu Asp Ser Asn Gln Thr Ser Asp Val Leu
 2145 2150 2155 2160
 Arg Phe Val Leu Glu Gln Tyr Asn Ala Leu Ser Trp Leu Thr Cys Asp
 2165 2170 2175
 Pro Ala Thr Gln Asp Arg Arg Ser Cys Leu Pro Ile His Phe Val Val
 2180 2185 2190
 Leu Asn Gln Leu Tyr Asn Phe Ile Met Asn Met Leu
 2195 2200 2204

<210> 2139

<211> 668

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(666)

<223> Xaa = any amino acid or nothing

<400> 2139

Thr Gly Thr Leu Thr Glu Asp Gly Leu Asp Val Met Gly Val Val Pro
 1 5 10 15
 Leu Lys Gly Gln Ala Phe Leu Pro Leu Val Pro Glu Pro Arg Arg Leu
 20 25 30
 Pro Val Gly Pro Leu Leu Arg Ala Leu Ala Thr Cys His Ala Leu Ser
 35 40 45

```

Arg Leu Gln Asp Thr Pro Val Gly Asp Pro Met Asp Leu Lys Met Val
 50          55          60
Glu Ser Thr Gly Trp Val Leu Glu Glu Glu Pro Ala Ala Asp Ser Ala
 65          70          75          80
Phe Gly Thr Gln Val Leu Ala Val Met Arg Pro Pro Leu Trp Glu Pro
 85          90          95
Gln Leu Gln Ala Met Glu Glu Pro Pro Val Pro Val Ser Val Leu His
100          105          110
Arg Phe Pro Phe Ser Ser Ala Leu Gln Arg Met Ser Val Val Val Ala
115          120          125
Trp Pro Gly Ala Thr Gln Pro Glu Ala Tyr Val Lys Gly Ser Pro Glu
130          135          140
Leu Val Ala Gly Leu Cys Asn Pro Glu Thr Val Pro Thr Asp Phe Ala
145          150          155          160
Gln Met Leu Gln Ser Tyr Thr Ala Ala Gly Tyr Arg Val Val Ala Leu
165          170          175
Ala Ser Lys Pro Leu Pro Ser Val Pro Ser Leu Glu Ala Ala Gln Gln
180          185          190
Leu Thr Arg Asp Thr Val Glu Gly Asp Leu Ser Leu Leu Gly Leu Leu
195          200          205
Val Met Arg Asn Leu Leu Lys Pro Gln Thr Thr Pro Val Ile Gln Ala
210          215          220
Leu Arg Arg Thr Arg Ile Arg Ala Val Met Val Thr Gly Asp Asn Leu
225          230          235          240
Gln Thr Ala Val Thr Val Ala Arg Gly Cys Gly Met Val Ala Pro Gln
245          250          255
Glu His Leu Ile Ile Val His Ala Thr His Pro Glu Arg Gly Gln Pro
260          265          270
Ala Ser Leu Glu Phe Leu Pro Met Glu Ser Pro Thr Ala Val Asn Gly
275          280          285
Val Lys Asp Pro Asp Gln Ala Ala Ser Tyr Thr Val Glu Pro Asp Pro
290          295          300
Arg Ser Arg His Leu Ala Leu Ser Gly Pro Thr Phe Gly Ile Ile Val
305          310          315          320
Lys His Phe Pro Lys Leu Leu Pro Lys Val Leu Val Gln Gly Thr Val
325          330          335
Phe Ala Arg Met Ala Pro Glu Gln Lys Thr Glu Leu Val Cys Glu Leu
340          345          350
Gln Lys Leu Gln Tyr Cys Val Gly Met Cys Gly Asp Gly Ala Asn Asp
355          360          365
Cys Gly Ala Leu Lys Ala Ala Asp Val Gly Ile Ser Leu Ser Gln Ala
370          375          380
Glu Ala Ser Val Val Ser Pro Phe Thr Ser Ser Met Ala Ser Ile Glu
385          390          395          400
Cys Val Pro Met Val Ile Arg Glu Gly Arg Cys Ser Leu Asp Thr Ser
405          410          415
Phe Ser Val Phe Lys Tyr Met Ala Leu Tyr Ser Leu Thr Gln Phe Ile
420          425          430
Ser Val Leu Ile Leu Tyr Thr Ile Asn Thr Asn Leu Gly Asp Leu Gln
435          440          445
Phe Leu Ala Ile Asp Leu Val Ile Thr Thr Thr Val Ala Val Leu Met
450          455          460
Ser Arg Thr Gly Pro Ala Leu Val Leu Gly Arg Val Arg Pro Pro Gly
465          470          475          480
Ala Leu Leu Ser Val Pro Val Leu Ser Ser Leu Leu Leu Gln Met Val
485          490          495
Leu Val Thr Gly Val Gln Leu Gly Gly Tyr Phe Leu Thr Leu Ala Gln
500          505          510
Pro Trp Phe Val Pro Leu Asn Arg Thr Val Ala Ala Pro Asp Asn Leu
515          520          525
Pro Asn Tyr Glu Asn Thr Val Val Phe Ser Leu Ser Ser Phe Gln Tyr
530          535          540
Leu Ile Leu Ala Ala Ala Val Ser Lys Gly Ala Pro Phe Arg Arg Pro
545          550          555          560

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Leu Thr Asn Asn Val Pro Phe Leu Leu Ala Ser Ala Leu Xaa Ser Ser
      565                      570                      575
Val Leu Val Val Leu Val Leu Ser Pro Gly Leu Leu His Gly Pro Leu
      580                      585                      590
Ala Leu Arg Asn Ile Thr Asp Thr Gly Phe Lys Leu Leu Val Gly
      595                      600                      605
Leu Val Thr Leu Asn Phe Val Gly Gly Leu His Ala Gly Glu Arg Ala
      610                      615                      620
Arg Pro Val Pro Pro Arg Leu Pro Ala Pro Pro Pro Ala Gln Ala Gly
      625                      630                      635                      640
Ser Lys Lys Arg Phe Lys Gln Leu Glu Arg Glu Leu Ala Glu Gln Pro
      645                      650                      655
Trp Pro Pro Leu Pro Ala Gly Pro Leu Arg
      660                      665 666

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<210> 2140
<211> 330
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(327)
<223> Xaa = any amino acid or nothing

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<400> 2140
Ser Ser Ala Gly Ser Ala Arg Lys Leu Gln Val Met Ala Leu Ala Ala
 1      5      10      15
Arg Leu Trp Arg Leu Leu Pro Phe Arg Arg Gly Ala Ala Pro Gly Ser
      20      25      30
Arg Leu Pro Ala Gly Thr Ser Gly Ser Arg Gly His Cys Gly Pro Cys
      35      40      45
Arg Phe Arg Gly Phe Glu Val Met Gly Asn Pro Gly Thr Phe Lys Arg
      50      55      60
Gly Leu Leu Leu Ser Ala Leu Ser Tyr Leu Gly Phe Glu Thr Tyr Gln
      65      70      75      80
Val Ile Ser Gln Ala Ala Val Val His Ala Thr Ala Lys Val Glu Glu
      85      90      95
Ile Leu Glu Gln Ala Asp Tyr Leu Tyr Glu Ser Gly Glu Thr Glu Lys
      100     105     110
Leu Tyr Gln Leu Leu Thr Gln Tyr Lys Glu Ser Glu Asp Ala Glu Leu
      115     120     125
Leu Trp Arg Leu Ala Arg Ala Ser Arg Asp Val Ala Gln Leu Ser Arg
      130     135     140
Thr Ser Glu Glu Glu Lys Lys Leu Leu Val Tyr Glu Ala Leu Glu Tyr
      145     150     155     160
Ala Lys Arg Ala Leu Glu Lys Asn Glu Ser Ser Phe Ala Ser His Lys
      165     170     175
Trp Tyr Ala Ile Cys Leu Ser Asp Val Gly Asp Tyr Glu Gly Ile Lys
      180     185     190
Ala Lys Ile Ala Asn Ala Tyr Ile Ile Lys Glu His Phe Glu Lys Ala
      195     200     205
Ile Glu Leu Asn Pro Lys Asp Ala Thr Ser Ile His Leu Met Gly Ile
      210     215     220
Trp Cys Tyr Thr Phe Ala Glu Met Pro Trp Tyr Gln Arg Arg Ile Ala
      225     230     235     240
Xaa Asn Ala Cys Leu Gln Leu Pro Pro Xaa Phe Pro Pro Tyr Glu Lys
      245     250     255
Ala Leu Gly Tyr Phe His Arg Ala Glu Gln Val Asp Pro Asn Phe Tyr
      260     265     270
Ser Lys Asn Leu Leu Leu Leu Gly Lys Thr Tyr Leu Lys Leu His Asn
      275     280     285

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Lys Lys Leu Ala Ala Phe Trp Leu Met Lys Ala Lys Asp Tyr Pro Ala
 290 295 300
 His Thr Glu Glu Asp Lys Gln Ile Gln Thr Glu Ala Ala Gln Leu Leu
 305 310 315 320
 Thr Ser Phe Ser Glu Lys Asn
 325 327

<210> 2141
 <211> 490
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(484)
 <223> Xaa = any amino acid or nothing

<400> 2141
 Ile Ala Leu Leu Ile Val Asp Gly Leu Ala Trp Asp Asp Gln Gly Gly
 1 5 10 15
 Leu Ala Leu Leu His Ile Ser Pro Ser Lys Leu Ile Leu Xaa Gln Asp
 20 25 30
 Ser Ser Gly Met Ser Tyr Val Met Val Arg Cys Thr Ile Thr Arg Ala
 35 40 45
 Phe Phe Lys Ser Leu Leu Cys His Ile Cys Gln Tyr Ser Ile Gly Pro
 50 55 60
 Gln Xaa Val Thr Cys Pro Gly Gln Asp Ala Cys Lys Glu Xaa Lys Ser
 65 70 75 80
 Thr Ala Asn Xaa Gly Gly Xaa Arg Glu Xaa Xaa Pro Gln Val Leu Phe
 85 90 95
 Phe Ala Phe Leu Ser Asn Pro Ala Val Lys Phe Gly Arg Met Ser Lys
 100 105 110
 Lys Gln Arg Asp Ser Leu Tyr Ala Glu Val Gln Lys His Gln Gln Arg
 115 120 125
 Leu Gln Glu Gln Arg Gln Gln Gln Ser Gly Glu Ala Glu Ala Leu Ala
 130 135 140
 Arg Val Tyr Ser Ser Ser Ile Ser Asn Gly Leu Ser Asn Leu Asn Asn
 145 150 155 160
 Glu Thr Ser Gly Thr Tyr Ala Asn Gly Ser Val Ile Asp Leu Pro Lys
 165 170 175
 Ser Glu Gly Tyr Tyr Asn Val Val Ser Gly Gln Pro Ser Pro Asp Gln
 180 185 190
 Ser Gly Leu Asp Met Thr Gly Ile Lys Gln Ile Lys Gln Glu Pro Ile
 195 200 205
 Tyr Asp Leu Thr Ser Val Pro Asn Leu Phe Thr Tyr Ser Ser Phe Asn
 210 215 220
 Asn Gly Gln Leu Ala Pro Gly Ile Thr Met Thr Glu Ile Asp Arg Ile
 225 230 235 240
 Ala Gln Asn Ile Ile Lys Ser His Leu Glu Thr Cys Gln Tyr Thr Met
 245 250 255
 Glu Glu Leu His Gln Leu Ala Trp Gln Thr His Thr Tyr Glu Glu Ile
 260 265 270
 Lys Ala Tyr Gln Ser Lys Ser Arg Glu Ala Leu Trp Gln Gln Cys Ala
 275 280 285
 Ile Gln Ile Thr His Ala Ile Gln Tyr Val Val Glu Phe Ala Lys Arg
 290 295 300
 Ile Thr Gly Phe Met Glu Leu Cys Gln Asn Asp Gln Ile Leu Leu Leu
 305 310 315 320
 Lys Ser Gly Cys Leu Glu Val Val Leu Val Arg Met Cys Arg Ala Phe
 325 330 335
 Asn Pro Leu Asn Asn Thr Val Leu Phe Glu Gly Lys Tyr Gly Gly Met
 340 345 350

Gln Met Phe Lys Ala Leu Gly Ser Asp Asp Leu Val Asn Glu Ala Phe
 355 360 365
 Asp Phe Ala Lys Asn Leu Cys Ser Leu Gln Leu Thr Glu Glu Glu Ile
 370 375 380
 Ala Leu Phe Ser Ser Ala Val Leu Ile Ser Pro Asp Arg Ala Trp Leu
 385 390 395 400
 Ile Glu Pro Arg Lys Val Gln Lys Leu Gln Glu Lys Ile Tyr Phe Ala
 405 410 415
 Leu Gln His Val Ile Gln Lys Asn His Leu Asp Asp Glu Thr Leu Ala
 420 425 430
 Lys Leu Ile Ala Lys Ile Pro Thr Thr Ile Thr Ala Val Cys Asn Leu His
 435 440 445
 Gly Glu Lys Leu Gln Val Phe Lys Gln Ser His Pro Glu Ile Val Asn
 450 455 460
 Thr Leu Phe Pro Pro Leu Tyr Lys Glu Leu Phe Asn Pro Asp Cys Ala
 465 470 475 480
 Thr Ala Cys Lys
 484

<210> 2142

<211> 231

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(230)

<223> Xaa = any amino acid or nothing

<400> 2142

Ser Arg Gly Thr Phe Arg Cys Phe Cys Arg Asp Phe Phe Pro Cys Phe
 1 5 10 15
 Ser Asn Met Arg Leu Phe Leu Trp Asn Ala Val Leu Thr Leu Phe Val
 20 25 30
 Thr Ser Leu Ile Gly Ala Leu Ile Pro Glu Pro Glu Val Lys Ile Glu
 35 40 45
 Val Leu Gln Lys Pro Phe Ile Cys His Arg Lys Thr Lys Gly Gly Asp
 50 55 60
 Leu Met Leu Val His Tyr Glu Gly Tyr Leu Glu Lys Asp Gly Ser Leu
 65 70 75 80
 Phe His Ser Thr His Lys His Asn Asn Gly Gln Pro Ile Trp Phe Thr
 85 90 95
 Leu Gly Ile Leu Glu Ala Leu Lys Gly Trp Gly Pro Gly Ala Xaa Lys
 100 105 110
 Asp Met Cys Val Gly Glu Lys Arg Lys Leu Ile Ile Pro Pro Ala Leu
 115 120 125
 Gly Tyr Gly Lys Glu Gly Lys Gly Lys Ile Pro Pro Glu Ser Thr Leu
 130 135 140
 Ile Phe Asn Ile Asp Leu Leu Glu Ile Arg Asn Gly Pro Arg Ser His
 145 150 155 160
 Glu Ser Phe Gln Glu Met Asp Leu Asn Asp Asp Trp Lys Leu Ser Lys
 165 170 175
 Asp Glu Val Lys Ala Tyr Leu Lys Lys Glu Phe Glu Lys His Gly Ala
 180 185 190
 Val Val Asn Glu Ser His His Asp Ala Leu Val Glu Asp Ile Phe Asp
 195 200 205
 Lys Glu Asp Glu Asp Lys Asp Gly Phe Ile Ser Ala Arg Glu Phe Thr
 210 215 220
 Tyr Lys His Asp Glu Leu
 225 230

<210> 2143
 <211> 1029
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(1011)
 <223> Xaa = any amino acid or nothing

<400> 2143
 Pro Arg Leu Lys Arg Leu Val Val Thr Glu Glu Asp Gly Gly Ala Arg
 1 5 10 15
 Pro Glu Ala Leu Gly Lys Ile Ala Pro Arg Thr Pro Ala Glu Leu Gly
 20 25 30
 Ala Arg Ala Asp Gln Glu Leu Val Thr Ala Leu Met Cys Asp Leu Arg
 35 40 45
 Arg Pro Ala Ala Gly Gly Met Met Asp Leu Ala Tyr Val Cys Glu Trp
 50 55 60
 Glu Lys Trp Ser Lys Ser Thr His Cys Pro Ser Val Pro Leu Ala Cys
 65 70 75 80
 Ala Trp Ser Cys Arg Asn Leu Ile Ala Phe Thr Met Asp Leu Arg Ser
 85 90 95
 Asp Asp Gln Asp Leu Thr Arg Met Ile His Ile Leu Asp Thr Glu His
 100 105 110
 Pro Trp Asp Leu His Ser Ile Pro Ser Glu His His Glu Ala Ile Thr
 115 120 125
 Cys Leu Glu Trp Asp Gln Ser Gly Phe Pro Gly Phe Leu Phe Ser Arg
 130 135 140
 Trp Pro Thr Gly Gln Ile Lys Cys Trp Ser Met Gly Val Ser Thr Leu
 145 150 155 160
 Ala Asn Ser Trp Glu Ser Ser Val Gly Ser Leu Val Glu Gly Gly Pro
 165 170 175
 His Leu Trp Ala Leu Ser Trp Leu His Asn Gly Val Lys Leu Ala Leu
 180 185 190
 His Val Glu Lys Ser Gly Ala Ser Ser Phe Gly Glu Lys Phe Ser Arg
 195 200 205
 Val Lys Phe Ser Pro Ser Leu Thr Leu Phe Gly Gly Asn Ala Met Glu
 210 215 220
 Gly Trp Ile Ala Val Thr Val Ser Gly Leu Val Thr Val Ser Leu Leu
 225 230 235 240
 Gln Pro Ser Gly Gln Val Leu Thr Ser Thr Glu Ser Leu Cys Arg Leu
 245 250 255
 Arg Ala Arg Val Ala Leu Ala Asp Ile Ala Phe Thr Gly Gly Gly Asn
 260 265 270
 Ile Val Val Ala Thr Ala Asp Gly Ser Ser Ala Ser Pro Val Gln Phe
 275 280 285
 Tyr Lys Val Cys Val Ser Val Val Ser Glu Lys Cys Arg Ile Asp Thr
 290 295 300
 Asp Ile Leu Pro Ser Leu Phe Met Arg Cys Thr Thr Asp Leu Asn Arg
 305 310 315 320
 Lys Asp Lys Phe Pro Ala Ile Thr His Leu Lys Phe Leu Ala Arg Asp
 325 330 335
 Met Ser Glu Gln Val Leu Leu Cys Ala Ser Ser Gln Thr Ser Ser Ile
 340 345 350
 Val Glu Cys Trp Ser Leu Arg Lys Glu Gly Leu Pro Val Asn Asn Ile
 355 360 365
 Phe Gln Gln Ile Ser Pro Val Val Gly Asp Lys Gln Pro Thr Ile Leu
 370 375 380
 Lys Trp Arg Ile Leu Ser Ala Thr Asn Asp Leu Asp Arg Val Ser Ala
 385 390 395 400
 Val Ala Leu Pro Lys Leu Pro Ile Ser Leu Thr Asn Thr Asp Leu Lys
 405 410 415

Val Ala Ser Asp Thr Gln Phe Tyr Pro Gly Leu Gly Leu Ala Leu Ala
 420 425 430
 Phe His Asp Gly Ser Val His Ile Val His Arg Leu Ser Leu Gln Thr
 435 440 445
 Met Ala Val Phe Tyr Ser Ser Ala Ala Pro Arg Pro Val Asp Glu Pro
 450 455 460
 Ala Met Lys Arg Pro Arg Thr Ala Gly Pro Ala Val His Leu Lys Ala
 465 470 475 480
 Met Gln Leu Ser Trp Thr Ser Leu Ala Leu Val Gly Ile Asp Ser His
 485 490 495
 Gly Lys Leu Ser Val Leu Arg Leu Ser Pro Ser Met Gly His Pro Leu
 500 505 510
 Glu Val Gly Leu Ala Leu Arg His Leu Leu Phe Leu Leu Glu Tyr Cys
 515 520 525
 Met Val Thr Gly Tyr Asp Trp Trp Asp Ile Leu Leu His Val Gln Pro
 530 535 540
 Ser Met Val Gln Ser Leu Val Glu Lys Leu His Glu Glu Tyr Thr Arg
 545 550 555 560
 Gln Thr Ala Ala Leu Gln Gln Val Leu Ser Thr Arg Ile Leu Ala Met
 565 570 575
 Lys Ala Ser Leu Cys Lys Leu Ser Pro Cys Thr Val Thr Arg Val Cys
 580 585 590
 Asp Tyr His Thr Lys Leu Phe Leu Ile Ala Ile Ser Ser Thr Leu Lys
 595 600 605
 Ser Leu Leu Arg Pro His Phe Leu Asn Thr Pro Asp Lys Ser Pro Gly
 610 615 620
 Asp Arg Leu Thr Glu Ile Cys Thr Lys Ile Thr Asp Val Asp Ile Asp
 625 630 635 640
 Lys Val Met Ile Asn Leu Lys Thr Glu Glu Phe Val Leu Asp Met Asn
 645 650 655
 Thr Leu Gln Ala Leu Gln Gln Leu Leu Gln Trp Val Gly Asp Phe Val
 660 665 670
 Leu Tyr Leu Leu Ala Ser Leu Pro Asn Gln Pro Cys Pro Thr Ser Glu
 675 680 685
 Pro Cys Pro Thr Ser Glu Pro Ser Pro Thr Ser Glu Pro Ser Pro Thr
 690 695 700
 Ser Glu Pro Ser Ser Pro Xaa Ser Leu Cys Gly Ser Leu Leu Arg Pro
 705 710 715 720
 Gly His Ser Phe Leu Arg Asp Gly Thr Ser Leu Gly Met Leu Arg Glu
 725 730 735
 Leu Met Val Val Ile Arg Ile Trp Gly Leu Leu Lys Pro Ser Cys Leu
 740 745 750
 Pro Val Tyr Thr Ala Thr Ser Asp Thr Gln Asp Ser Met Ser Leu Leu
 755 760 765
 Phe Arg Leu Leu Thr Lys Leu Trp Ile Cys Cys Arg Asp Glu Gly Pro
 770 775 780
 Ala Ser Glu Pro Asp Glu Ala Leu Val Asp Glu Cys Cys Leu Leu Pro
 785 790 795 800
 Ser Gln Leu Leu Ile Pro Ser Leu Asp Trp Leu Pro Ala Ser Asp Gly
 805 810 815
 Leu Val Ser Arg Leu Gln Pro Lys Gln Pro Leu Arg Leu Gln Phe Gly
 820 825 830
 Arg Ala Pro Thr Leu Pro Gly Ser Ala Ala Thr Leu Gln Leu Asp Gly
 835 840 845
 Leu Ala Arg Ala Pro Gly Gln Pro Lys Ile Asp His Leu Arg Arg Leu
 850 855 860
 His Leu Gly Ala Cys Pro Thr Glu Glu Cys Lys Ala Cys Thr Arg Cys
 865 870 875 880
 Gly Cys Val Thr Met Leu Lys Ser Pro Asn Arg Thr Thr Ala Val Lys
 885 890 895
 Gln Trp Glu Gln Arg Trp Ile Lys Asn Cys Leu Val Arg Trp Ala Leu
 900 905 910
 Val Ala Gly Ala Pro Gln Leu Pro Leu Ser Pro Ala Ala Pro Gln Leu
 915 920 925

Leu Leu Ser Tyr Pro Ser Ala Ala Pro Glu Pro Gly Cys Cys Lys Ser
 930 935 940
 His Arg Ser Pro Trp Thr Leu Leu Gly Ala Val Asn Leu Ser Pro Pro
 945 950 955 960
 Cys Arg Ala Val Glu Gly Arg Gly Pro Asp Ala Cys Val Thr Ser Arg
 965 970 975
 Ala Ser Glu Glu Ala Pro Ala Phe Val Gln Leu Gly Pro Gln Ser Thr
 980 985 990
 His His Ser Pro Arg Thr Pro Arg Ser Leu Asp His Leu His Pro Glu
 995 1000 1005
 Asp Arg Pro
 10101011

<210> 2144
 <211> 56
 <212> PRT
 <213> Homo sapiens

<221> misc_feature
 <222> (1)...(55)
 <223> Xaa = any amino acid or nothing

<400> 2144
 Asn Gly Asp Lys Ala Asp Leu Glu Asn Glu Ser Cys Arg Ala Gln Val
 1 5 10 15
 Leu Met Pro Val Val Pro Ala Leu Trp Glu Ala Glu Gly Gly Ser
 20 25 30
 Ile Glu Pro Arg Asp Leu Arg Leu Gln Xaa Ala Val Ile Thr Pro Leu
 35 40 45
 Thr Pro Ala Trp Val Thr Gln
 50 55

<210> 2145
 <211> 215
 <212> PRT
 <213> Homo sapiens

<221> misc_feature
 <222> (1)...(211)
 <223> Xaa = any amino acid or nothing

<400> 2145
 Lys Leu Leu Trp Leu Pro Pro His Ser Glu Gln Lys Arg Ser Pro Leu
 1 5 10 15
 Tyr His Pro Gln Gly Pro Ser Gly Thr Thr Pro Ser Ala Pro Phe Ser
 20 25 30
 Ser His Ser Pro Pro Pro Ser Leu Leu Gln Ala Pro Ser Ile Ala Ala
 35 40 45
 Phe Leu Arg Thr His Gly His Ile Ser Ala Ser Gly Pro Leu Arg Met
 50 55 60
 Pro Phe Pro His His Xaa Asn Ala Phe Leu Leu Val Phe Pro Gly Gln
 65 70 75 80
 Arg Ser Gln Leu Thr Ser Pro Ser His Tyr Leu Cys Arg Glu Val Phe
 85 90 95
 Pro Asp His His His His Leu Cys Arg Leu Ser Leu Glu Ser Ser Pro
 100 105 110
 Leu Phe His His Arg Val Leu Phe Cys Val Pro Lys Gln Asn Val Asn
 115 120 125

Ser Thr Arg Ala Gln Ile Phe Cys Leu Phe Val His Ile Val Gly Cys
 130 135 140
 Arg Cys Ile Asn Thr Phe Pro Leu His Leu Phe Arg Leu His Leu Trp
 145 150 155 160
 Leu His Phe Leu Gln Ile Pro Leu Cys Lys Lys Asn Lys Ser Val Lys
 165 170 175
 Leu Gly Lys Thr Val Val Gly Arg Gly Cys Gln Ser Ala Ala Gly Ser
 180 185 190
 Asp Thr Arg Val Arg Ala Ala Val Gly Ala Pro Gly Leu Pro Val Glu
 195 200 205
 Pro Leu Val
 210 211

<210> 2146

<211> 291

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(289)

<223> Xaa = any amino acid or nothing

<400> 2146

His Ser Ala Leu Leu Thr His Ser Ser Phe Cys Val Phe Thr Leu Cys
 1 5 10 15
 Gln Asp Phe Phe Thr Tyr Ser Ser Met Ser Glu Glu Val Thr Tyr Ala
 20 25 30
 Asp Leu Gln Phe Gln Asn Ser Ser Glu Met Glu Lys Ile Pro Glu Ile
 35 40 45
 Gly Lys Phe Gly Glu Lys Ala Pro Pro Ala Pro Ser His Val Trp Arg
 50 55 60
 Pro Ala Ala Leu Phe Leu Thr Leu Leu Cys Leu Leu Leu Leu Ile Gly
 65 70 75 80
 Leu Gly Val Leu Ala Ser Met Phe His Val Thr Leu Lys Ile Glu Met
 85 90 95
 Lys Lys Met Asn Lys Leu Gln Asn Ile Ser Glu Glu Leu Gln Arg Asn
 100 105 110
 Ile Ser Leu Gln Leu Met Ser Asn Met Asn Ile Ser Asn Lys Ile Arg
 115 120 125
 Asn Leu Ser Thr Thr Leu Gln Thr Ile Ala Thr Lys Leu Cys Arg Glu
 130 135 140
 Leu Tyr Ser Lys Glu Gln Glu His Lys Cys Lys Pro Cys Pro Arg Arg
 145 150 155 160
 Trp Ile Trp His Lys Asp Ser Cys Tyr Phe Leu Ser Asp Asp Val Gln
 165 170 175
 Thr Trp Gln Glu Ser Lys Met Ala Cys Ala Ala Gln Asn Ala Ser Leu
 180 185 190
 Leu Lys Ile Asn Asn Lys Asn Ala Leu Glu Phe Ile Lys Ser Gln Ser
 195 200 205
 Arg Ser Tyr Asp Tyr Trp Leu Gly Leu Ser Pro Glu Glu Asp Ser Tyr
 210 215 220
 Ser Trp Tyr Glu Ser Gly Xaa Tyr Asn Gln Pro Ser Ala Trp Val Ile
 225 230 235 240
 Arg Asn Ala Pro Asp Leu Asn Asn Met Tyr Cys Gly Tyr Ile Asn Arg
 245 250 255
 Leu Tyr Val Gln Tyr Tyr His Cys Thr Tyr Lys Gln Arg Met Ile Cys
 260 265 270
 Glu Lys Met Ala Asn Pro Val Gln Leu Gly Ser Thr Tyr Phe Arg Glu
 275 280 285
 Ala
 289

<210> 2147
 <211> 604
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1) ... (602)
 <223> Xaa = any amino acid or nothing

<400> 2147
 Pro Gly Ser Thr His Ala Ser Ala Arg Ser Gln Val Pro Arg Ser Ala
 1 5 10 15
 Gly Glu Ala Ala Pro His Ser Arg Arg Pro Pro Gly Leu Leu Pro His
 20 25 30
 Ala Pro Arg Ala Ala Ser Ala Gln Leu Glu Glu Arg Met Arg Asp Pro
 35 40 45
 His Pro Gly Met Thr Leu Gln Glu Gly Asp Cys Arg Gly Ser Gln Thr
 50 55 60
 Val Ser Leu Thr Met Gly Thr Ala Asp Ser Asp Glu Met Ala Pro Glu
 65 70 75 80
 Ala Pro Gln His Thr His Ile Asp Val His Ile His Gln Glu Ser Ala
 85 90 95
 Leu Ala Lys Leu Leu Leu Thr Cys Cys Ser Ala Leu Arg Pro Arg Ala
 100 105 110
 Thr Gln Ala Arg Gly Ser Ser Arg Leu Leu Val Ala Ser Trp Val Met
 115 120 125
 Gln Ile Val Leu Gly Ile Leu Ser Ala Val Leu Gly Gly Phe Phe Tyr
 130 135 140
 Ile Arg Asp Tyr Thr Leu Leu Val Thr Ser Gly Ala Ala Ile Trp Thr
 145 150 155 160
 Gly Ala Val Ala Val Leu Ala Gly Ala Ala Phe Ile Tyr Glu Lys
 165 170 175
 Arg Gly Gly Thr Tyr Trp Ala Leu Leu Arg Thr Leu Leu Ala Leu Ala
 180 185 190
 Ala Phe Ser Thr Ala Ile Ala Ala Leu Lys Leu Trp Asn Glu Asp Phe
 195 200 205
 Arg Tyr Gly Tyr Ser Tyr Tyr Asn Ser Ala Cys Arg Ile Ser Ser Ser
 210 215 220
 Ser Asp Trp Asn Thr Pro Ala Pro Thr Gln Ser Pro Glu Glu Val Arg
 225 230 235 240
 Arg Leu His Leu Cys Thr Ser Phe Met Asp Met Leu Lys Ala Leu Phe
 245 250 255
 Arg Thr Leu Gln Ala Met Leu Leu Gly Val Trp Ile Leu Leu Leu Leu
 260 265 270
 Ala Ser Leu Thr Pro Leu Trp Leu Ser Leu Arg Gly Glu Cys Ser Gln
 275 280 285
 Pro Lys Gly Xaa Val Pro Lys Lys Arg Asp Gln Lys Glu Met Leu Glu
 290 295 300
 Val Ser Gly Ile Xaa Pro Gly Ser Thr His Ala Ser Ala Arg Ser Gln
 305 310 315 320
 Val Pro Arg Ser Ala Gly Glu Ala Ala Pro His Ser Arg Arg Pro Pro
 325 330 335
 Gly Leu Leu Pro His Ala Pro Arg Ala Ala Ser Ala Gln Leu Glu Glu
 340 345 350
 Arg Met Arg Asp Pro His Pro Gly Met Thr Leu Gln Glu Gly Asp Cys
 355 360 365
 Arg Gly Ser Gln Thr Val Ser Leu Thr Met Gly Thr Ala Asp Ser Asp
 370 375 380
 Glu Met Ala Pro Glu Ala Pro Gln His Thr His Ile Asp Val His Ile
 385 390 395 400

His Gln Glu Ser Ala Leu Ala Lys Leu Leu Leu Thr Cys Cys Ser Ala
 405 410 415
 Leu Arg Pro Arg Ala Thr Gln Ala Arg Gly Ser Ser Arg Leu Leu Val
 420 425 430
 Ala Ser Trp Val Met Gln Ile Val Leu Gly Ile Leu Ser Ala Val Leu
 435 440 445
 Gly Gly Phe Phe Tyr Ile Arg Asp Tyr Thr Leu Leu Val Thr Ser Gly
 450 455 460
 Ala Ala Ile Trp Thr Gly Ala Val Ala Val Leu Ala Gly Ala Ala Ala
 465 470 475 480
 Phe Ile Tyr Glu Lys Arg Gly Gly Thr Tyr Trp Ala Leu Leu Arg Thr
 485 490 495
 Leu Leu Ala Leu Ala Ala Phe Ser Thr Ala Ile Ala Ala Leu Lys Leu
 500 505 510
 Trp Asn Glu Asp Phe Arg Tyr Gly Tyr Ser Tyr Tyr Asn Ser Ala Cys
 515 520 525
 Arg Ile Ser Ser Ser Ser Asp Trp Asn Thr Pro Ala Pro Thr Gln Ser
 530 535 540
 Pro Glu Glu Val Arg Arg Leu His Leu Cys Thr Ser Phe Met Asp Met
 545 550 555 560
 Leu Lys Ala Leu Phe Arg Thr Leu Gln Ala Met Leu Leu Gly Val Trp
 565 570 575
 Ile Leu Leu Leu Leu Ala Ser Leu Thr Pro Leu Trp Leu Tyr Cys Trp
 580 585 590
 Arg Met Phe Pro Thr Lys Gly Val Ser Pro
 595 600 602

<210> 2148

<211> 460

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(458)

<223> Xaa = any amino acid or nothing

<400> 2148

Val Pro Asn Tyr Leu Pro Ser Val Ser Ser Ala Ile Gly Gly Glu Val
 1 5 10 15
 Pro Gln Arg Tyr Val Trp Arg Phe Cys Ile Gly Leu His Ser Ala Pro
 20 25 30
 Arg Phe Leu Val Ala Phe Ala Tyr Trp Asn His Tyr Leu Ser Cys Thr
 35 40 45
 Ser Pro Cys Ser Cys Tyr Arg Pro Leu Cys Arg Leu Asn Phe Gly Leu
 50 55 60
 Asn Val Val Glu Asn Leu Ala Leu Leu Val Leu Thr Tyr Val Ser Ser
 65 70 75 80
 Ser Glu Asp Phe Thr Trp Val Pro Gly Xaa Gly Arg Ser Gly Glu Val
 85 90 95
 Phe Pro Glu Gly Thr Gly Leu Pro Leu Pro His Ser Asp Leu Pro Thr
 100 105 110
 Ser Trp Cys Gly His Ser Leu Gln Cys Gly Ser Gln Ser Ser Phe Pro
 115 120 125
 Pro Ala Ile His Glu Asn Ala Phe Ile Val Phe Ile Ala Ser Ser Leu
 130 135 140
 Gly His Met Leu Leu Thr Cys Ile Leu Trp Arg Leu Thr Lys Lys His
 145 150 155 160
 Thr Val Ser Gln Glu Asp Gly Leu Ser Leu Ala Gly Ala Pro Arg Gln
 165 170 175
 Pro Arg Arg Lys Ser Arg Thr Ser Val Leu Arg Ile Arg Val Met Val
 180 185 190

Arg Trp Glu Leu Ser Ser Asn Gly Asn Pro Gly Arg Gly Val Leu Gly
 195 200 205
 Leu Gly Leu Gly Leu Gly Asn Lys Leu Arg Val Val Gly Gln Asn Leu
 210 215 220
 Gly Leu Xaa His Cys Val Trp Val Val Trp Glu Thr Gly Glu Xaa Lys
 225 230 235 240
 Arg Trp Arg Leu Gln Met Gly Ile Glu Xaa Gly Val Ala Ser Arg Arg
 245 250 255
 Gln Xaa Val Arg Asn Ser Val Arg Gly Leu Val Cys His Asn Ser Ser
 260 265 270
 Ala Pro Pro Met Tyr Met Gly Phe Phe Ser Pro Thr Val Phe Gly Gly
 275 280 285
 Gly Val Gly Gly Xaa Leu His Val Thr Phe Ile Leu His Pro Pro Glu
 290 295 300
 Val Glu Ala Ala Gly Ile Pro Leu Leu Leu Gly Pro Ser Leu Pro Gln
 305 310 315 320
 Arg Gln Gly Arg Glu His Ile Val Val Ile Leu Ala Ala Pro Ala Cys
 325 330 335
 Ala Pro Phe His Asp Arg Xaa Trp Glu Pro Arg Glu Ile Arg Pro Ser
 340 345 350
 Pro Xaa Glu Leu Gly Leu Arg Gly Glu Pro Thr Leu Ser Tyr Pro Ala
 355 360 365
 Ser Cys Arg Val Ile Arg Gln Pro Ile Pro Xaa Asp Arg Lys Ser Tyr
 370 375 380
 Ser Trp Lys Gln Arg Leu Phe Ile Ile Asn Phe Ile Ser Phe Phe Ser
 385 390 395 400
 Ala Leu Ala Val Tyr Phe Arg His Asn Met Tyr Cys Glu Ala Gly Val
 405 410 415
 Tyr Thr Ile Phe Ala Ile Leu Glu Tyr Thr Val Val Leu Thr Asn Met
 420 425 430
 Ala Phe His Met Thr Ala Trp Trp Asp Phe Gly Asn Lys Glu Leu Leu
 435 440 445
 Ile Thr Ser Gln Pro Glu Glu Lys Arg Phe
 450 455 458

<210> 2149
 <211> 294
 <212> PRT
 <213> Homo sapiens

<400> 2149
 Phe Phe Phe Phe Gln Arg Ile Asn Phe Ile Glu His Ser Gly Ser Val
 1 5 10 15
 Ser Leu Leu Ala Leu Ala Cys Asp Leu Gly Trp Cys Glu Asp Trp Ser
 20 25 30
 Cys Cys Leu Val Gln Gly Gly Gly Asp Leu Val Asp Val Gln Thr
 35 40 45
 Asn His Gly Glu Asp Glu Ala Gly Gly Asp Thr Asp Ser Val Asp Glu
 50 55 60
 Ala Arg Cys Lys Glu Ser Gln Gln Glu Ala Gln Glu Asn Leu Arg Glu
 65 70 75 80
 Asp Leu Cys Leu Glu Ser Phe Ala Lys Asp Lys Ile Leu Gln Ile Ile
 85 90 95
 Glu Gly Ser Glu Arg Glu His Glu Glu Thr Arg Thr Lys Gln Ala Ala
 100 105 110
 Leu Asp Gly Glu Pro Leu Gly Gly Gln Leu Thr Ala Val His Leu
 115 120 125
 His Pro Ser Lys Glu Gln Gln Gly Gln Glu Gly Gly Glu Arg Gln Arg
 130 135 140
 Gly Ala Arg Thr His His Trp Arg Gly Trp Glu Lys Gly Arg Arg Val
 145 150 155 160

Arg Leu Arg Pro Pro Ser Gly Lys Leu Arg Ala Asp Gln Pro Val Arg
 165 170 175
 Lys Leu Gly Gly Pro Thr Pro Ser Thr Glu Leu Pro Gly Leu Gln Pro
 180 185 190
 His Ala Pro Thr Pro His Thr Ala Pro Ala Thr Pro Thr Tyr Ser Pro
 195 200 205
 Ala Pro Asp Thr Pro Asn Pro Pro Val Arg Trp Lys Cys Pro Leu Pro
 210 215 220
 Val Glu Pro Arg Thr Arg Gln Leu Cys Arg Glu Arg Thr Arg Lys Ala
 225 230 235 240
 Cys Pro Pro Lys Pro Arg Pro Pro Leu Gly Leu Pro Gly Asp Pro Thr
 245 250 255
 Gly Pro Val Thr His His Ala Pro Pro Val Ser Pro Thr Gly Ala Ser
 260 265 270
 Gly Gln Glu Arg Arg Ala Glu Pro Gly Ala Val Ser Tyr Ala His Ala
 275 280 285
 Ser Ala Thr Lys
 290 292

<210> 2150
 <211> 222
 <212> PRT
 <213> Homo sapiens

<400> 2150
 Ser Ala Gln Arg Trp Ala Ala Val Ala Gly Arg Trp Gly Cys Arg Leu
 1 5 10 15
 Leu Ala Leu Leu Leu Val Pro Gly Pro Gly Gly Ala Ser Glu Ile
 20 25 30
 Thr Phe Glu Leu Pro Asp Asn Ala Lys Gln Cys Phe Tyr Glu Asp Ile
 35 40 45
 Ala Gln Gly Thr Lys Cys Thr Leu Glu Phe Gln Val Ile Thr Gly Gly
 50 55 60
 His Tyr Asp Val Asp Cys Arg Leu Glu Asp Pro Asp Gly Lys Val Leu
 65 70 75 80
 Tyr Lys Glu Met Lys Lys Gln Tyr Asp Ser Phe Thr Phe Thr Ala Ser
 85 90 95
 Lys Asn Gly Thr Tyr Lys Phe Cys Phe Ser Asn Glu Phe Ser Thr Phe
 100 105 110
 Thr His Lys Thr Val Tyr Phe Asp Phe Gln Val Gly Glu Thr His Leu
 115 120 125
 Cys Phe Leu Val Arg Asp Arg Val Ser Ala Leu Thr Gln Met Glu Ser
 130 135 140
 Ala Cys Val Ser Ile His Glu Ala Leu Lys Ser Val Ile Asp Tyr Gln
 145 150 155 160
 Thr His Phe Arg Leu Arg Glu Ala Gln Gly Arg Ser Arg Ala Glu Asp
 165 170 175
 Leu Asn Thr Arg Val Ala Tyr Trp Ser Val Gly Glu Ala Leu Ile Leu
 180 185 190
 Leu Val Val Ser Ile Gly Gln Val Phe Leu Leu Lys Ser Phe Phe Ser
 195 200 205
 Asp Lys Arg Thr Thr Thr Thr Arg Val Gly Ser
 210 215 219

<210> 2151
 <211> 440
 <212> PRT
 <213> Homo sapiens

<400> 2151
 Thr Pro Cys Met Glu Cys Ile Lys Gly Glu Gly Leu Arg Glu Pro Gln
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 Val Asp Met Ala Arg Leu Gly Pro Glu Trp Ser Gln Pro Met Lys Arg
 85 90 95
 Leu Thr Leu Gly Asn Thr Thr Ser Ser Val Ile Leu Thr Asn Tyr Met
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 Asp Thr Gln Tyr Tyr Gly Glu Ile Gly Ile Gly Thr Pro Pro Gln Thr
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 Phe Lys Val Val Phe Asp Thr Gly Ser Ser Asn Val Trp Val Pro Ser
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 Ser Lys Cys Ser Arg Leu Tyr Thr Ala Cys Val Tyr His Lys Leu Phe
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 Asp Ala Ser Asp Ser Ser Ser Tyr Lys His Asn Gly Thr Glu Leu Thr
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 Leu Arg Tyr Ser Thr Gly Thr Val Ser Gly Phe Leu Ser Gln Asp Ile
 180 185 190
 Ile Thr Val Gly Gly Ile Thr Val Thr Gln Met Phe Gly Glu Val Thr
 195 200 205
 Glu Met Pro Ala Leu Pro Phe Met Leu Ala Glu Phe Asp Gly Val Val
 210 215 220
 Gly Met Gly Phe Ile Glu Gln Ala Ile Gly Arg Val Thr Pro Ile Phe
 225 230 235 240
 Asp Asn Ile Ile Ser Gln Gly Val Leu Lys Glu Asp Val Phe Ser Phe
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 Tyr Tyr Asn Arg Asp Ser Glu Asn Ser Gln Ser Leu Gly Gly Gln Ile
 260 265 270
 Val Leu Gly Gly Ser Asp Pro Gln His Tyr Glu Gly Asn Phe His Tyr
 275 280 285
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 Lys Leu Met Glu Ala Leu Gly Ala Lys Glu Lys Arg Leu Phe Asp Tyr
 340 345 350
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 Gln Glu Ser Tyr Ser Ser Lys Lys Leu Ser Thr Leu Ala Ile His Ala
 385 390 395 400
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<210> 2152

<211> 2045

<212> PRT

<213> Homo sapiens

<400> 2152

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Asn Ala Pro Glu Trp Leu Pro Phe Ala Arg Pro Thr Asn Leu Thr Asp
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Glu Phe Glu Phe Pro Ile Gly Thr Tyr Leu Asn Tyr Glu Cys Arg Pro
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Gly Tyr Ser Gly Arg Pro Phe Ser Ile Ile Cys Leu Lys Asn Ser Val
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Trp Thr Gly Ala Lys Asp Arg Cys Arg Arg Lys Ser Cys Arg Asn Pro
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Pro Asp Pro Val Asn Gly Met Val His Val Ile Lys Gly Ile Gln Phe
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Gly Ser Gln Ile Lys Tyr Ser Cys Thr Lys Gly Tyr Arg Leu Ile Gly
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Ser Ser Ser Ala Thr Cys Ile Ile Ser Gly Asp Thr Val Ile Trp Asp
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Asn Glu Thr Pro Ile Cys Asp Arg Ile Pro Cys Gly Leu Pro Pro Thr
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Ile Thr Asn Gly Asp Phe Ile Ser Thr Asn Arg Glu Asn Phe His Tyr
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Gly Ser Val Val Thr Tyr Arg Cys Asn Pro Gly Ser Gly Gly Arg Lys
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Phe Ser Pro Gly Gln Glu Val Phe Tyr Ser Cys Glu Pro Gly Tyr Asp
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Pro Ala Ala Pro Thr Cys Glu Val Lys Ser Cys Asp Asp Phe Met Gly
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Gln Leu Leu Asn Gly Arg Val Leu Phe Pro Val Asn Leu Gln Leu Gly
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Ala Lys Val Asp Phe Val Cys Asp Glu Gly Phe Gln Leu Lys Gly Ser
 385      390      395      400
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      405      410      415
Ser Val Pro Val Cys Glu Gln Ile Phe Cys Pro Ser Pro Pro Val Ile
      420      425      430
Pro Asn Gly Arg His Thr Gly Lys Pro Leu Glu Val Phe Pro Phe Gly
      435      440      445
Lys Ala Val Asn Tyr Thr Cys Asp Pro His Pro Asp Arg Gly Thr Ser
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Phe Asp Leu Ile Gly Glu Ser Thr Ile Arg Cys Thr Ser Asp Pro Gln
 465      470      475      480

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Gly Asn Gly Val Trp Ser Ser Pro Ala Pro Arg Cys Gly Ile Leu Gly
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 565 570 575
 Gln Val Gly Ser Arg Ile Asn Tyr Ser Cys Thr Thr Gly His Arg Leu
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 Trp Ser Thr Lys Pro Pro Ile Cys Gln Arg Ile Pro Cys Gly Leu Pro
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 Pro Thr Ile Ala Asn Gly Asp Phe Ile Ser Thr Asn Arg Glu Asn Phe
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 Arg Lys Val Phe Glu Leu Val Gly Glu Pro Ser Ile Tyr Cys Thr Ser
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 Trp Ser Pro Ala Ala Pro Thr Cys Glu Val Lys Ser Cys Asp Asp Phe
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 Leu Lys Gly Ser Ser Val Ser His Cys Val Leu Val Gly Met Arg Ser
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 Ser Pro Pro Pro Arg Cys Ile Ser Thr Asn Lys Cys Thr Ala Pro Glu
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 Val Glu Asn Ala Ile Arg Val Pro Gly Asn Arg Ser Phe Phe Ser Leu
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 Thr Glu Ile Ile Arg Phe Arg Cys Gln Pro Gly Phe Val Met Val Gly
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 Pro His Cys Ser Arg Val Cys Gln Pro Pro Pro Glu Ile Leu His Gly
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 Glu His Thr Leu Ser His Gln Asp Asn Phe Ser Pro Gly Gln Glu Val
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 His Cys Thr Pro Gln Gly Asp Trp Ser Pro Glu Ala Pro Arg Cys Thr
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 Val Lys Ser Cys Asp Asp Phe Leu Gly Gln Leu Pro His Gly Arg Val
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 Thr Pro Leu Gly Asp Ile Pro Tyr Gly Lys Glu Val Ser Tyr Thr Cys
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 Asp Pro His Pro Asp Arg Gly Met Thr Phe Asn Leu Ile Gly Glu Ser
 1810 1815 1820
 Thr Ile Arg Arg Thr Ser Glu Pro His Gly Asn Gly Val Trp Ser Ser
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 Pro Ala Pro Arg Cys Glu Leu Pro Val Gly Ala Ala Cys Pro His Pro
 1845 1850 1855
 Pro Lys Ile Gln Asn Gly His Tyr Ile Gly Gly His Val Ser Leu Tyr
 1860 1865 1870
 Leu Pro Gly Met Thr Ile Ser Tyr Thr Cys Asp Pro Gly Tyr Leu Leu
 1875 1880 1885
 Val Gly Lys Gly Phe Ile Phe Cys Thr Asp Gln Gly Ile Trp Ser Gln
 1890 1895 1900
 Leu Asp His Tyr Cys Lys Glu Val Asn Cys Ser Phe Pro Leu Phe Met
 1905 1910 1915 1920
 Asn Gly Ile Ser Lys Glu Leu Glu Met Lys Lys Val Tyr His Tyr Gly
 1925 1930 1935
 Asp Tyr Val Thr Leu Lys Cys Glu Asp Gly Tyr Thr Leu Glu Gly Ser
 1940 1945 1950
 Pro Trp Ser Gln Cys Gln Ala Asp Asp Arg Trp Asp Pro Pro Leu Ala
 1955 1960 1965
 Lys Cys Thr Ser Arg Thr His Asp Ala Leu Ile Val Gly Thr Leu Ser
 1970 1975 1980
 Gly Thr Ile Phe Phe Ile Leu Leu Ile Ile Phe Leu Ser Trp Ile Ile
 1985 1990 1995 2000
 Leu Lys His Arg Lys Gly Asn Asn Ala His Glu Asn Pro Lys Glu Val
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<400> 2153
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 50 55 60
 Ser Trp Ala Arg Val Gly Pro Ala Val Glu Leu Ala Leu Ala Gln Val
 65 70 75 80
 Lys Ala Arg Pro Asp Leu Leu Pro Gly Trp Thr Val Arg Thr Val Leu
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 Gly Ser Ser Glu Asn Ala Leu Gly Val Cys Ser Asp Thr Ala Ala Pro
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 Leu Ala Ala Val Asp Leu Lys Trp Glu His Asn Pro Ala Val Phe Leu
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 Gly Pro Gly Cys Val Tyr Ala Ala Ala Pro Val Gly Arg Phe Thr Ala
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 His Trp Arg Val Pro Leu Leu Thr Ala Gly Ala Pro Ala Leu Gly Phe
 145 150 155 160
 Gly Val Lys Asp Glu Tyr Ala Leu Thr Thr Arg Ala Gly Pro Ser Tyr
 165 170 175
 Ala Lys Leu Gly Asp Phe Val Ala Ala Leu His Arg Arg Leu Gly Trp
 180 185 190
 Glu Arg Gln Ala Leu Met Leu Tyr Ala Tyr Arg Pro Gly Asp Glu Glu
 195 200 205
 His Cys Phe Phe Leu Val Glu Gly Leu Phe Met Arg Val Arg Asp Arg
 210 215 220
 Leu Asn Ile Thr Val Asp His Leu Glu Phe Ala Glu Asp Asp Leu Ser
 225 230 235 240
 His Tyr Thr Arg Leu Leu Arg Thr Met Pro Arg Lys Gly Arg Val Ile
 245 250 255
 Tyr Ile Cys Ser Ser Pro Asp Ala Phe Arg Thr Leu Met Leu Leu Ala
 260 265 270
 Leu Glu Ala Gly Leu Cys Gly Glu Asp Tyr Val Phe Phe His Leu Asp
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 Ile Phe Gly Gln Ser Leu Gln Gly Gly Gln Gly Pro Ala Pro Arg Arg
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 Pro Trp Glu Arg Gly Asp Gly Gln Asp Val Ser Ala Arg Gln Ala Phe
 305 310 315 320
 Gln Ala Ala Lys Ile Ile Thr Tyr Lys Asp Pro Asp Asn Pro Glu Tyr
 325 330 335
 Leu Glu Phe Leu Lys Gln Leu Lys His Leu Ala Tyr Glu Gln Phe Asn
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 Phe Thr Met Glu Asp Gly Leu Val Asn Thr Ile Pro Ala Ser Phe His
 355 360 365
 Asp Gly Leu Leu Leu Tyr Ile Gln Ala Val Thr Glu Thr Leu Ala His
 370 375 380
 Gly Gly Thr Val Thr Asp Gly Glu Asn Ile Thr Gln Arg Met Trp Asn
 385 390 395 400

Arg Ser Phe Gln Gly Val Thr Gly Tyr Leu Lys Ile Asp Ser Ser Gly
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 Asp Arg Glu Thr Asp Phe Ser Leu Trp Asp Met Asp Pro Glu Asn Gly
 420 425 430
 Ala Phe Arg Val Val Leu Asn Tyr Asn Gly Thr Ser Gln Glu Leu Val
 435 440 445
 Ala Val Ser Gly Arg Lys Leu Asn Trp Pro Leu Gly Tyr Pro Pro Pro
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 Asp His Leu Ser Thr Leu Glu Val Leu Ala Leu Val Gly Ser Leu Ser
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 Leu Val Ala Val Lys Arg Val Asn Arg Lys Arg Ile Glu Leu Thr Arg
 580 585 590
 Lys Val Leu Phe Glu Leu Lys His Met Arg Asp Val Gln Asn Glu His
 595 600 605
 Leu Thr Arg Phe Val Gly Ala Cys Thr Asp Pro Pro Asn Ile Cys Ile
 610 615 620
 Leu Thr Glu Tyr Cys Pro Arg Gly Ser Leu Gln Asp Ile Leu Glu Asn
 625 630 635 640
 Glu Ser Ile Thr Leu Asp Trp Met Phe Arg Tyr Ser Leu Thr Asn Asp
 645 650 655
 Ile Val Lys Gly Met Leu Phe Leu His Asn Gly Ala Ile Cys Ser His
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 Gly Asn Leu Lys Ser Ser Asn Cys Val Val Asp Gly Arg Phe Val Leu
 675 680 685
 Lys Ile Thr Asp Tyr Gly Leu Glu Ser Phe Arg Asp Leu Asp Pro Glu
 690 695 700
 Gln Gly His Thr Val Tyr Ala Lys Lys Leu Trp Thr Ala Pro Glu Leu
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 Tyr Ser Phe Gly Ile Ile Leu Gln Glu Ile Ala Leu Arg Ser Gly Val
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 Phe His Val Glu Gly Leu Asp Leu Ser Pro Lys Glu Ile Ile Glu Arg
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 Val Thr Arg Gly Glu Gln Pro Pro Phe Arg Pro Ser Leu Ala Leu Gln
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 Arg Met Glu Gln Tyr Ala Asn Asn Leu Glu Glu Leu Val Glu Glu Arg
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 Val Gln Ala Glu Ala Phe Asp Ser Val Thr Ile Tyr Phe Ser Asp Ile
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 Pro Val Cys Ala Gly Val Val Gly Leu Lys Met Pro Arg Tyr Cys Leu
 995 1000 1005
 Phe Gly Asp Thr Val Asn Thr Ala Ser Arg Met Glu Ser Asn Gly Glu
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<213> Homo sapiens

<400> 2154

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 Arg Leu Ile Val Arg Tyr Asp Glu Glu Val Val Lys Glu Leu Ile Pro
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 65 70 75 80
 Gln Glu His Gln Val Glu Leu Glu Leu Leu Arg Asp Asp Asn Glu Gln
 85 90 95
 Leu Ile Thr Gln Tyr Glu Arg Glu Lys Ala Leu Arg Lys His Ala Glu
 100 105 110
 Glu Lys Phe Ile Glu Phe Glu Asp Ser Gln Glu Gln Glu Lys Lys Asp
 115 120 125
 Leu Gln Thr Arg Val Glu Ser Leu Glu Ser Gln Thr Arg Gln Leu Glu
 130 135 140
 Leu Lys Ala Lys Asn Tyr Ala Asp Gln Ile Ser Ile Leu Glu Glu Arg
 145 150 155 160
 Glu Ala Glu Leu Lys Lys Glu Tyr Asn Ala Leu His Gln Arg His Thr
 165 170 175
 Glu Met Ile His Asn Tyr Met Glu His Leu Glu Arg Thr Lys Leu His
 180 185 190
 Gln Leu Ser Gly Ser Asp Gln Leu Glu Ser Thr Ala His Ser Arg Ile
 195 200 205
 Arg Lys Glu Arg Pro Ile Ser Leu Gly Ile Phe Pro Leu Pro Ala Gly
 210 215 220
 Asp Gly Leu Leu Thr Pro Asp Ala Gln Lys Gly Gly Glu Thr Pro Gly
 225 230 235 240
 Ser Glu Gln Trp Lys Phe Gln Glu Leu Ser Gln Pro Arg Ser His Thr
 245 250 255

Ser Leu Lys Asp Glu Leu Ser Asp Val Ser Gln Gly Gly Ser Lys Ala
 260 265 270
 Thr Thr Pro Ala Ser Thr Ala Asn Ser Asp Val Ala Thr Ile Pro Thr
 275 280 285
 Asp Thr Pro Leu Lys Glu Glu Asn Glu Gly Phe Val Lys Val Thr Asp
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 Ala Pro Asn Lys Ser Glu Ile Ser Lys His Ile Glu Val Gln Val Ala
 305 310 315 320
 Gln Glu Thr Arg Asn Val Ser Thr Gly Ser Ala Glu Asn Glu Lys
 325 330 335
 Ser Glu Val Gln Ala Ile Ile Glu Ser Thr Pro Glu Leu Asp Met Asp
 340 345 350
 Lys Asp Leu Ser Gly Tyr Lys Gly Ser Ser Thr Pro Thr Lys Gly Ile
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 Glu Asn Lys Ala Phe Asp Arg Asn Thr Glu Ser Leu Phe Glu Glu Leu
 370 375 380
 Ser Ser Ala Gly Ser Gly Leu Ile Gly Asp Val Asp Glu Gly Ala Asp
 385 390 395 400
 Leu Leu Gly Met Gly Arg Glu Val Glu Asn Leu Ile Leu Glu Asn Thr
 405 410 415
 Gln Leu Leu Glu Thr Lys Asn Ala Leu Asn Ile Val Lys Asn Asp Leu
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 Ile Ala Lys Val Asp Glu Leu Thr Cys Glu Lys Asp Val Leu Gln Gly
 435 440 445
 Glu Leu Glu Ala Val Lys Gln Ala Lys Leu Lys Leu Glu Glu Lys Asn
 450 455 460
 Arg Glu Leu Glu Glu Glu Leu Arg Lys Ala Arg Ala Glu Ala Glu Asp
 465 470 475 480
 Ala Arg Gln Lys Ala Lys Asp Asp Asp Ser Asp Ile Pro Thr Ala
 485 490 495
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 Arg Asn Gln Tyr Lys Glu Arg Leu Met Glu Leu Gln Glu Ala Val Arg
 515 520 525
 Trp Thr Glu Met Ile Arg Ala Ser Arg Glu Asn Pro Ala Met Gln Glu
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 565 570 575
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 580 585 590
 Thr Leu Ser Gln Leu Pro Gly Asp Lys Ser Lys Ala Phe Asp Phe Leu
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 Ser Glu Glu Thr Glu Ala Ser Leu Ala Ser Arg Arg Glu Gln Lys Arg
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 Glu Gln Tyr Arg Gln Val Lys Ala His Val Gln Lys Glu Asp Gly Arg
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 Val Gln Ala Phe Gly Trp Ser Leu Pro Gln Lys Tyr Lys Gln Val Thr
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 Asn Gly Gln Gly Glu Asn Lys Met Lys Asn Leu Pro Val Pro Val Tyr
 660 665 670
 Leu Arg Pro Leu Asp Glu Lys Asp Thr Ser Met Lys Leu Trp Cys Ala
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 Val Gly Val Asn Leu Ser Gly Gly Lys Thr Arg Asp Gly Gly Ser Val
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 Val Gly Ala Ser Val Phe Tyr Lys Asp Val Ala Gly Leu Asp Thr Glu
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 755 760 765

Leu Ile Ile Asp Ala Val Gln Pro Gly Asn Ile Leu Asp Ser Phe Thr
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 Gly Val Thr Gly Ala Ala Thr Ser Pro Ser Thr Asn Gly Ala Ser Pro
 850 855 860
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 865 870 875 880
 Glu Asn Val Pro Thr Ala Glu Glu Ala Thr Glu Ala Thr Glu Gly Asn
 885 890 895
 Ala Gly Ser Ala Glu Asp Thr Val Asp Ile Ser Gln Thr Gly Val Tyr
 900 905 910
 Thr Glu His Val Phe Thr Asp Pro Leu Gly Val Gln Ile Pro Glu Asp
 915 920 925
 Leu Ser Pro Val Tyr Gln Ser Ser Asn Asp Ser Asp Ala Tyr Lys Asp
 930 935 940
 Gln Ile Ser Val Leu Pro Asn Glu Gln Asp Leu Val Arg Glu Glu Ala
 945 950 955 960
 Gln Lys Met Ser Ser Leu Leu Pro Thr Met Trp Leu Gly Ala Gln Asn
 965 970 975
 Gly Cys Leu Tyr Val His Ser Ser Val Ala Gln Trp Arg Lys Cys Leu
 980 985 990
 His Ser Ile Lys Leu Lys Asp Ser Ile Leu Ser Ile Val His Val Lys
 995 1000 1005
 Gly Ile Val Leu Val Ala Leu Ala Asp Gly Thr Leu Ala Ile Phe His
 1010 1015 1020
 Arg Gly Val Asp Gly Gln Trp Asp Leu Ser Asn Tyr His Leu Leu Asp
 1025 1030 1035 1040
 Leu Gly Arg Pro His His Ser Ile Arg Cys Met Thr Val Val His Asp
 1045 1050 1055
 Lys Val Trp Cys Gly Tyr Arg Asn Lys Ile Tyr Val Val Gln Pro Lys
 1060 1065 1070
 Ala Met Lys Ile Glu Lys Ser Phe Asp Ala His Pro Arg Lys Glu Ser
 1075 1080 1085
 Gln Val Arg Gln Leu Ala Trp Val Gly Asp Gly Val Trp Val Ser Ile
 1090 1095 1100
 Arg Leu Asp Ser Thr Leu Arg Leu Tyr His Ala His Thr Tyr Gln His
 1105 1110 1115 1120
 Leu Gln Asp Val Asp Ile Glu Pro Tyr Val Ser Lys Met Leu Gly Thr
 1125 1130 1135
 Gly Lys Leu Gly Phe Ser Phe Val Arg Ile Thr Ala Leu Met Val Ser
 1140 1145 1150
 Cys Asn Arg Leu Trp Val Gly Thr Gly Asn Gly Val Ile Ile Ser Ile
 1155 1160 1165
 Pro Leu Thr Glu Thr Val Ile Leu His Gln Gly Arg Leu Leu Gly Leu
 1170 1175 1180
 Arg Ala Asn Lys Thr Ser Gly Val Pro Gly Asn Arg Pro Gly Ser Val
 1185 1190 1195 1200
 Ile Arg Val Tyr Gly Asp Glu Asn Ser Asp Lys Val Thr Pro Gly Thr
 1205 1210 1215
 Phe Ile Pro Tyr Cys Ser Met Ala His Ala Gln Leu Cys Phe His Gly
 1220 1225 1230
 His Arg Asp Ala Val Lys Phe Phe Val Ala Val Pro Gly Gln Val Ile
 1235 1240 1245
 Ser Pro Gln Ser Ser Ser Ser Gly Thr Asp Leu Thr Gly Asp Lys Gly
 1250 1255 1260
 Arg Gly His Leu His Arg Ser Leu Val Val Arg Arg Pro
 1265 1270 1275 1277

<210> 2155
 <211> 711
 <212> PRT
 <213> Homo sapiens

<400> 2155
 Phe Gly Arg Leu Leu Trp Gly Thr Ala Phe Lys Ser Trp Lys Met Lys
 1 5 10 15
 Ala Pro Ile Pro His Leu Ile Leu Leu Tyr Ala Thr Phe Thr Gln Ser
 20 25 30
 Leu Lys Val Val Thr Lys Arg Gly Ser Ala Asp Gly Cys Thr Asp Trp
 35 40 45
 Ser Ile Asp Ile Lys Lys Tyr Gln Val Leu Val Gly Glu Pro Val Arg
 50 55 60
 Ile Lys Cys Ala Leu Phe Tyr Gly Tyr Ile Arg Thr Asn Tyr Ser Leu
 65 70 75 80
 Ala Gln Ser Ala Gly Leu Ser Leu Met Trp Tyr Lys Ser Ser Gly Pro
 85 90 95
 Gly Asp Phe Glu Glu Pro Ile Ala Phe Asp Gly Ser Arg Met Ser Lys
 100 105 110
 Glu Glu Asp Ser Ile Trp Phe Arg Pro Thr Leu Leu Gln Asp Ser Gly
 115 120 125
 Leu Tyr Ala Cys Val Ile Arg Asn Ser Thr Tyr Cys Met Lys Val Ser
 130 135 140
 Ile Ser Leu Thr Val Gly Glu Asn Asp Thr Gly Leu Cys Tyr Asn Ser
 145 150 155 160
 Lys Met Lys Tyr Phe Glu Lys Ala Glu Leu Ser Lys Ser Lys Glu Ile
 165 170 175
 Ser Cys Arg Asp Ile Glu Asp Phe Leu Leu Pro Thr Arg Glu Pro Glu
 180 185 190
 Ile Leu Trp Tyr Lys Glu Cys Arg Thr Lys Thr Trp Arg Pro Ser Ile
 195 200 205
 Val Phe Lys Arg Asp Thr Leu Leu Ile Arg Glu Val Arg Glu Asp Asp
 210 215 220
 Ile Gly Asn Tyr Thr Cys Glu Leu Lys Tyr Gly Gly Phe Val Val Arg
 225 230 235 240
 Arg Thr Thr Glu Leu Thr Val Thr Ala Pro Leu Thr Asp Lys Pro Pro
 245 250 255
 Lys Leu Leu Tyr Pro Met Glu Ser Lys Leu Thr Ile Gln Glu Thr Gln
 260 265 270
 Leu Gly Asp Ser Ala Asn Leu Thr Cys Arg Ala Phe Phe Gly Tyr Ser
 275 280 285
 Gly Asp Val Ser Pro Leu Ile Tyr Trp Met Lys Gly Glu Lys Phe Ile
 290 295 300
 Glu Asp Leu Asp Glu Asn Arg Val Trp Glu Ser Asp Ile Lys Ile Leu
 305 310 315 320
 Lys Glu His Leu Gly Glu Gln Glu Val Ser Ile Ser Leu Ile Val Asp
 325 330 335
 Ser Val Glu Glu Gly Asp Leu Gly Asn Tyr Ser Cys Tyr Val Glu Asn
 340 345 350
 Gly Asn Gly Arg Arg His Ala Ser Val Leu Leu His Lys Arg Glu Leu
 355 360 365
 Met Tyr Thr Val Glu Leu Ala Gly Gly Leu Gly Ala Ile Leu Leu Leu
 370 375 380
 Leu Val Cys Leu Val Thr Ile Tyr Lys Cys Tyr Lys Ile Glu Ile Met
 385 390 395 400
 Leu Phe Tyr Arg Asn His Phe Gly Ala Glu Glu Leu Asp Gly Asp Asn
 405 410 415
 Lys Asp Tyr Asp Ala Tyr Leu Ser Tyr Thr Lys Val Asp Pro Asp Gln
 420 425 430

Trp Asn Gln Glu Thr Gly Glu Glu Glu Arg Phe Ala Leu Glu Ile Leu
 435 440 445
 Pro Asp Met Leu Glu Lys His Tyr Gly Tyr Lys Leu Phe Ile Pro Asp
 450 455 460
 Arg Asp Leu Ile Pro Thr Gly Thr Tyr Ile Glu Asp Val Ala Arg Cys
 465 470 475 480
 Val Asp Gln Ser Lys Arg Leu Ile Ile Val Met Thr Pro Asn Tyr Val
 485 490 495
 Val Arg Arg Gly Trp Ser Ile Phe Glu Leu Glu Thr Arg Leu Arg Asn
 500 505 510
 Met Leu Val Thr Gly Glu Ile Lys Val Ile Leu Ile Glu Cys Ser Glu
 515 520 525
 Leu Arg Gly Ile Met Asn Tyr Gln Glu Val Glu Ala Leu Lys His Thr
 530 535 540
 Ile Lys Leu Leu Thr Val Ile Lys Trp His Gly Pro Lys Cys Asn Lys
 545 550 555 560
 Leu Asn Ser Lys Phe Trp Lys Arg Leu Gln Tyr Glu Met Pro Phe Lys
 565 570 575
 Arg Ile Glu Pro Ile Thr His Glu Gln Ala Leu Asp Val Ser Glu Gln
 580 585 590
 Gly Pro Phe Gly Glu Leu Gln Thr Val Ser Ala Ile Ser Met Ala Ala
 595 600 605
 Ala Thr Ser Thr Ala Leu Ala Thr Ala His Pro Asp Leu Arg Ser Thr
 610 615 620
 Phe His Asn Thr Tyr His Ser Gln Met Arg Gln Lys His Tyr Tyr Arg
 625 630 635 640
 Ser Tyr Glu Tyr Asp Val Pro Pro Thr Gly Thr Leu Pro Leu Thr Ser
 645 650 655
 Ile Gly Asn Gln His Thr Tyr Cys Asn Ile Pro Met Thr Leu Ile Asn
 660 665 670
 Gly Gln Arg Pro Gln Thr Lys Ser Ser Arg Glu Gln Asn Pro Asp Glu
 675 680 685
 Ala His Thr Asn Ser Ala Ile Leu Pro Leu Leu Pro Arg Glu Thr Ser
 690 695 700
 Ile Ser Ser Val Ile Trp
 705 710

<210> 2156

<211> 530

<212> PRT

<213> Homo sapiens

<400> 2156

Asn Ser Ala Arg Gly Gly Val Gly Val Arg Gly Ala Arg Ala Met Ala
 1 5 10 15
 Thr Val Gln Glu Lys Ala Ala Ala Leu Asn Leu Ser Ala Leu His Ser
 20 25 30
 Pro Ala His Arg Pro Pro Gly Phe Ser Val Ala Gln Lys Pro Phe Gly
 35 40 45
 Ala Thr Tyr Val Trp Ser Ser Ile Ile Asn Thr Leu Gln Thr Gln Val
 50 55 60
 Glu Val Lys Lys Arg Arg His Arg Leu Lys Arg His Asn Asp Cys Phe
 65 70 75 80
 Val Gly Ser Glu Ala Val Asp Val Ile Phe Ser His Leu Ile Gln Asn
 85 90 95
 Lys Tyr Phe Gly Asp Val Asp Ile Pro Arg Ala Lys Val Val Arg Val
 100 105 110
 Cys Gln Ala Leu Met Asp Tyr Lys Val Phe Glu Ala Val Pro Thr Lys
 115 120 125
 Val Phe Gly Lys Asp Lys Lys Pro Thr Phe Glu Asp Ser Ser Cys Ser
 130 135 140

Leu Tyr Arg Phe Thr Thr Ile Pro Asn Gln Asp Ser Gln Leu Gly Lys
 145 150 155 160
 Glu Asn Lys Leu Tyr Ser Pro Ala Arg Tyr Ala Asp Ala Leu Phe Lys
 165 170 175
 Ser Ser Asp Ile Arg Ser Ala Ser Leu Glu Asp Leu Trp Glu Asn Leu
 180 185 190
 Ser Leu Lys Pro Ala Asn Ser Pro His Val Asn Ile Ser Thr Thr Leu
 195 200 205
 Ser Pro Gln Val Ile Asn Glu Val Trp Gln Glu Glu Thr Ile Gly Arg
 210 215 220
 Leu Leu Gln Leu Val Asp Leu Pro Leu Leu Asp Ser Leu Leu Lys Gln
 225 230 235 240
 Gln Glu Ala Val Pro Lys Ile Pro Gln Pro Lys Arg Gln Ser Thr Met
 245 250 255
 Val Asn Ser Ser Asn Tyr Leu Asp Arg Gly Ile Leu Lys Ala Tyr Ser
 260 265 270
 Asp Ser Gln Glu Asp Glu Trp Leu Ser Ala Ala Ile Asp Cys Leu Glu
 275 280 285
 Tyr Leu Pro Asp Gln Met Val Val Glu Ile Ser Arg Ser Phe Pro Glu
 290 295 300
 Gln Pro Asp Arg Thr Asp Leu Val Lys Glu Leu Leu Phe Asp Ala Ile
 305 310 315 320
 Gly Arg Tyr Tyr Ser Ser Arg Glu Pro Leu Leu Asn His Leu Ser Asp
 325 330 335
 Val His Asn Gly Ile Ala Glu Leu Leu Val Asn Gly Lys Thr Glu Ile
 340 345 350
 Ala Leu Glu Ala Thr Gln Leu Leu Leu Lys Leu Leu Asp Phe Gln Asn
 355 360 365
 Arg Glu Glu Phe Arg Arg Leu Leu Tyr Phe Met Ala Val Ala Ala Asn
 370 375 380
 Pro Ser Glu Phe Lys Leu Gln Lys Glu Ser Asp Asn Arg Met Val Val
 385 390 395 400
 Lys Arg Ile Phe Ser Lys Ala Ile Val Asp Asn Lys Asn Leu Ser Lys
 405 410 415
 Gly Lys Thr Asp Leu Leu Val Leu Phe Leu Met Asp His Gln Lys Asp
 420 425 430
 Val Phe Lys Ile Pro Gly Thr Leu His Lys Ile Val Ser Val Lys Leu
 435 440 445
 Met Ala Ile Gln Asn Gly Arg Asp Pro Asn Arg Asp Ala Gly Tyr Ile
 450 455 460
 Tyr Cys Gln Arg Ile Asp Gln Arg Asp Tyr Ser Asn Ile Thr Glu Lys
 465 470 475 480
 Thr Thr Ile Asp Glu Leu Leu Tyr Leu Leu Lys Thr Leu Asp Glu Asp
 485 490 495
 Ser Lys Leu Ser Ala Lys Glu Lys Lys Lys Leu Leu Gly Gln Phe Tyr
 500 505 510
 Lys Cys His Pro Asp Ile Phe Ile Glu His Phe Gly Asp
 515 520 525

<210> 2157
 <211> 706
 <212> PRT
 <213> Homo sapiens

<400> 2157
 Phe Gly Ile Val Gly Thr Phe Ala Leu Glu Thr Asp Glu Leu Asp Ser
 1 5 10 15
 Asp Arg Asp Pro Ala Ile Phe Ser Leu Cys Asp Phe Gly Ala Met Arg
 20 25 30
 Pro Gln Ile Leu Leu Leu Leu Ala Leu Leu Thr Leu Gly Leu Ala Ala
 35 40 45

Gln	His	Gln	Asp	Lys	Val	Pro	Cys	Lys	Met	Val	Lys	Met	Leu	Cys	Pro
50						55					60				
Asp	Arg	Val	Asp	Lys	Lys	Val	Ser	Cys	Gln	Val	Leu	Gly	Leu	Leu	Gln
65				70						75					80
Val	Pro	Ser	Val	Leu	Pro	Pro	Asp	Thr	Glu	Thr	Leu	Asp	Leu	Ser	Gly
			85						90					95	
Asn	Gln	Leu	Arg	Ser	Ile	Leu	Ala	Ser	Pro	Leu	Gly	Phe	Tyr	Thr	Ala
		100						105					110		
Leu	Arg	His	Leu	Asp	Leu	Ser	Thr	Asn	Glu	Ile	Ser	Phe	Leu	Gln	Pro
	115						120					125			
Gly	Ala	Phe	Gln	Ala	Leu	Thr	His	Leu	Glu	His	Leu	Ser	Leu	Ala	His
	130					135					140				
Asn	Arg	Leu	Ala	Met	Ala	Thr	Ala	Leu	Ser	Ala	Gly	Gly	Leu	Gly	Pro
145				150						155					160
Leu	Pro	Arg	Val	Thr	Ser	Leu	Asp	Leu	Ser	Gly	Asn	Ser	Leu	Tyr	Ser
			165						170					175	
Gly	Leu	Leu	Glu	Arg	Leu	Leu	Gly	Glu	Ala	Pro	Ser	Leu	His	Thr	Leu
	180							185					190		
Ser	Leu	Ala	Glu	Asn	Ser	Leu	Thr	Arg	Leu	Thr	Arg	His	Thr	Phe	Arg
	195						200					205			
Asp	Met	Pro	Ala	Leu	Glu	Gln	Leu	Asp	Leu	His	Ser	Asn	Val	Leu	Met
	210					215					220				
Asp	Ile	Glu	Asp	Gly	Ala	Phe	Glu	Gly	Leu	Pro	Arg	Leu	Thr	His	Leu
225				230						235					240
Asn	Leu	Ser	Arg	Asn	Ser	Leu	Thr	Cys	Ile	Ser	Asp	Phe	Ser	Leu	Gln
			245						250					255	
Gln	Leu	Arg	Val	Leu	Asp	Leu	Ser	Cys	Asn	Ser	Ile	Glu	Ala	Phe	Gln
		260						265					270		
Thr	Ala	Ser	Gln	Pro	Gln	Ala	Glu	Phe	Gln	Leu	Thr	Trp	Leu	Asp	Leu
	275					280						285			
Arg	Glu	Asn	Lys	Leu	Leu	His	Phe	Pro	Asp	Leu	Ala	Ala	Leu	Pro	Arg
	290					295					300				
Leu	Ile	Tyr	Leu	Asn	Leu	Ser	Asn	Asn	Leu	Ile	Arg	Leu	Pro	Thr	Gly
305				310						315					320
Pro	Pro	Gln	Asp	Ser	Lys	Gly	Ile	His	Ala	Pro	Ser	Glu	Gly	Trp	Ser
			325						330					335	
Ala	Leu	Pro	Leu	Ser	Ala	Pro	Ser	Gly	Asn	Ala	Ser	Gly	Arg	Pro	Leu
		340						345					350		
Ser	Gln	Leu	Leu	Asn	Leu	Asp	Leu	Ser	Tyr	Asn	Glu	Ile	Glu	Leu	Ile
	355						360					365			
Pro	Asp	Ser	Phe	Leu	Glu	His	Leu	Thr	Ser	Leu	Cys	Phe	Leu	Asn	Leu
	370					375					380				
Ser	Arg	Asn	Cys	Leu	Arg	Thr	Phe	Glu	Ala	Arg	Arg	Leu	Gly	Ser	Leu
385				390						395					400
Pro	Cys	Leu	Met	Leu	Leu	Asp	Leu	Ser	His	Asn	Ala	Leu	Glu	Thr	Leu
			405						410					415	
Glu	Leu	Gly	Ala	Arg	Ala	Leu	Gly	Ser	Leu	Arg	Thr	Leu	Leu	Leu	Gln
		420						425					430		
Gly	Asn	Ala	Leu	Arg	Asp	Leu	Pro	Pro	Tyr	Thr	Phe	Ala	Asn	Leu	Ala
	435						440					445			
Ser	Leu	Gln	Arg	Leu	Asn	Leu	Gln	Gly	Asn	Arg	Val	Ser	Pro	Cys	Gly
	450					455					460				
Gly	Pro	Asp	Glu	Pro	Gly	Pro	Ser	Gly	Cys	Val	Ala	Phe	Ser	Gly	Ile
465				470						475					480
Thr	Ser	Leu	Arg	Ser	Leu	Ser	Leu	Val	Asp	Asn	Glu	Ile	Glu	Leu	Leu
			485						490					495	
Arg	Ala	Gly	Ala	Phe	Leu	His	Thr	Pro	Leu	Thr	Glu	Leu	Asp	Leu	Ser
		500						505					510		
Ser	Asn	Pro	Gly	Leu	Glu	Val	Ala	Thr	Gly	Ala	Leu	Gly	Gly	Leu	Glu
		515					520					525			
Ala	Ser	Leu	Glu	Val	Leu	Ala	Leu	Gln	Gly	Asn	Gly	Leu	Met	Val	Leu
	530					535					540				
Gln	Val	Asp	Leu	Pro	Cys	Phe	Ile	Cys	Leu	Lys	Arg	Leu	Asn	Leu	Ala
545					550					555					560

Glu Asn Arg Leu Ser His Leu Pro Ala Trp Thr Gln Ala Val Ser Leu
 565 570 575
 Glu Val Leu Asp Leu Arg Asn Asn Ser Phe Ser Leu Leu Pro Gly Ser
 580 585 590
 Ala Met Gly Gly Leu Glu Thr Ser Leu Arg Arg Leu Tyr Leu Gln Gly
 595 600 605
 Asn Pro Leu Ser Cys Cys Gly Asn Gly Trp Leu Ala Ala Gln Leu His
 610 615 620
 Gln Gly Arg Val Asp Val Asp Ala Thr Gln Asp Leu Ile Cys Arg Phe
 625 630 635 640
 Ser Ser Gln Glu Glu Val Ser Leu Ser His Val Arg Pro Glu Asp Cys
 645 650 655
 Glu Lys Gly Gly Leu Lys Asn Ile Asn Leu Ile Ile Ile Leu Thr Phe
 660 665 670
 Ile Leu Val Ser Ala Ile Leu Leu Thr Thr Leu Ala Ala Cys Cys Cys
 675 680 685
 Val Arg Arg Gln Lys Phe Asn Gln Gln Tyr Lys Ala
 690 695 700

<210> 2158
 <211> 571
 <212> PRT
 <213> Homo sapiens

<400> 2158
 Phe Lys Ala Leu Ser Gln Tyr Ile Tyr Thr Asn Thr His Leu Glu Arg
 1 5 10 15
 Glu Ala Ala Phe Glu Val Ala Ile Leu Leu Arg Arg Met Glu Glu Gly
 20 25 30
 Ala Arg His Arg Asn Asn Thr Glu Lys Lys His Pro Gly Gly Gly Glu
 35 40 45
 Ser Asp Ala Ser Pro Glu Ala Gly Ser Gly Gly Gly Val Ala Leu
 50 55 60
 Lys Lys Glu Ile Gly Leu Val Ser Ala Cys Gly Ile Ile Val Gly Asn
 65 70 75 80
 Ile Ile Gly Ser Gly Ile Phe Val Ser Pro Lys Gly Val Leu Glu Asn
 85 90 95
 Ala Gly Ser Val Gly Leu Ala Leu Ile Val Trp Ile Val Thr Gly Phe
 100 105 110
 Ile Thr Val Val Gly Ala Leu Cys Tyr Ala Glu Leu Gly Val Asn Ile
 115 120 125
 Pro Lys Ser Gly Gly Asp Tyr Phe Tyr Val Lys Asp Ile Phe Gly Gly
 130 135 140
 Leu Ala Gly Phe Leu Arg Leu Trp Ile Ala Val Leu Val Ile Tyr Pro
 145 150 155 160
 Thr Asn Gln Ala Val Ile Ala Leu Thr Phe Ser Asn Tyr Val Leu Gln
 165 170 175
 Pro Leu Phe Pro Thr Cys Phe Pro Pro Glu Ser Gly Leu Arg Leu Leu
 180 185 190
 Ala Ala Ile Cys Leu Leu Leu Leu Thr Trp Val Asn Cys Ser Ser Val
 195 200 205
 Arg Trp Ala Thr Arg Val Gln Asp Ile Phe Thr Ala Gly Lys Leu Leu
 210 215 220
 Ala Leu Ala Leu Ile Ile Ile Met Gly Ile Val Gln Ile Cys Lys Gly
 225 230 235 240
 Glu Tyr Phe Trp Leu Glu Pro Lys Asn Ala Phe Glu Asn Phe Gln Glu
 245 250 255
 Pro Asp Ile Gly Leu Val Ala Leu Ala Phe Leu Gln Gly Ser Phe Ala
 260 265 270
 Tyr Gly Gly Trp Asn Phe Leu Asn Tyr Val Thr Glu Glu Leu Val Asp
 275 280 285

Pro Tyr Lys Asn Leu Pro Arg Ala Ile Phe Ile Ser Ile Pro Leu Val
 290 295 300
 Thr Phe Val Tyr Val Phe Ala Asn Val Ala Leu Tyr Val Thr Ala Met
 305 310 315 320
 Ser Pro Gln Glu Leu Leu Ala Ser Asn Ala Val Ala Val Thr Phe Gly
 325 330 335
 Glu Lys Leu Leu Gly Val Met Ala Trp Ile Met Pro Ile Ser Val Ala
 340 345 350
 Leu Ser Thr Phe Gly Gly Val Asn Gly Ser Leu Phe Thr Ser Ser Arg
 355 360 365
 Leu Phe Phe Ala Gly Ala Arg Glu Gly His Leu Pro Ser Val Leu Ala
 370 375 380
 Met Ile His Val Lys Arg Cys Thr Pro Ile Pro Ala Leu Leu Phe Thr
 385 390 395 400
 Cys Ile Ser Thr Leu Leu Met Leu Val Thr Ser Asp Met Tyr Thr Leu
 405 410 415
 Ile Asn Tyr Val Gly Phe Ile Asn Tyr Leu Phe Tyr Gly Val Thr Val
 420 425 430
 Ala Gly Gln Ile Val Leu Arg Trp Lys Lys Pro Asp Ile Pro Arg Pro
 435 440 445
 Ile Lys Ile Asn Leu Leu Phe Pro Ile Ile Tyr Leu Leu Phe Trp Ala
 450 455 460
 Phe Leu Leu Val Phe Ser Leu Trp Ser Glu Pro Val Val Cys Gly Ile
 465 470 475 480
 Gly Leu Ala Ile Met Leu Thr Gly Val Pro Val Tyr Phe Leu Gly Val
 485 490 495
 Tyr Trp Gln His Lys Pro Lys Cys Phe Ser Asp Phe Ile Glu Leu Leu
 500 505 510
 Thr Leu Val Ser Gln Lys Met Cys Val Val Val Tyr Pro Glu Val Glu
 515 520 525
 Arg Gly Ser Gly Thr Glu Glu Ala Asn Glu Asp Met Glu Glu Gln Gln
 530 535 540
 Gln Pro Met Tyr Gln Pro Thr Pro Thr Lys Asp Lys Asp Val Ala Gly
 545 550 555 560
 Gln Pro Gln Pro
 564

<210> 2159

<211> 272

<212> PRT

<213> Homo sapiens

<400> 2159

Gln Asp Ser Arg Lys Met Leu Pro Ser Thr Ser Val Asn Ser Leu Val
 1 5 10 15
 Gln Gly Asn Gly Val Leu Asn Ser Arg Asp Ala Ala Arg His Thr Ala
 20 25 30
 Gly Ala Lys Arg Tyr Lys Tyr Leu Arg Arg Leu Phe Arg Phe Arg Gln
 35 40 45
 Met Asp Phe Glu Phe Ala Ala Trp Gln Met Leu Tyr Leu Phe Thr Ser
 50 55 60
 Pro Gln Arg Val Tyr Arg Asn Phe His Tyr Arg Lys Gln Thr Lys Asp
 65 70 75 80
 Gln Trp Ala Arg Asp Asp Pro Ala Phe Leu Val Leu Leu Ser Ile Trp
 85 90 95
 Leu Cys Val Ser Thr Ile Gly Phe Gly Phe Val Leu Asp Met Gly Phe
 100 105 110
 Phe Glu Thr Ile Lys Leu Leu Leu Trp Val Val Leu Ile Asp Cys Val
 115 120 125
 Gly Val Gly Leu Leu Ile Ala Thr Leu Met Trp Phe Ile Ser Asn Lys
 130 135 140

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Tyr Leu Val Lys Arg Gln Ser Arg Asp Tyr Asp Val Glu Trp Gly Tyr
145          150          155          160
Ala Phe Asp Val His Leu Asn Ala Phe Tyr Pro Leu Leu Val Ile Leu
          165          170          175
His Phe Ile Gln Leu Phe Phe Ile Asn His Val Ile Leu Thr Asp Thr
          180          185          190
Phe Ile Gly Tyr Leu Val Gly Asn Thr Leu Trp Leu Val Ala Val Gly
          195          200          205
Tyr Tyr Ile Tyr Val Thr Phe Leu Gly Tyr Ser Val Gly Leu Leu Phe
          210          215          220
Phe Ser Ala Leu Pro Phe Leu Lys Asn Thr Val Ile Leu Leu Tyr Pro
225          230          235          240
Phe Ala Pro Leu Ile Leu Leu Tyr Gly Leu Ser Leu Ala Leu Gly Trp
          245          250          255
Asn Phe Thr His Thr Leu Cys Ser Phe Tyr Lys Tyr Arg Val Lys
          260          265          270 271

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<210> 2160
<211> 223
<212> PRT
<213> Homo sapiens

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<400> 2160
Ser Pro Ala Ser Gly His Cys Arg Leu Asn Gly Ala Ala Val Ala Met
1      5      10      15
Phe Gly Cys Leu Val Ala Gly Arg Leu Val Gln Thr Ala Ala Gln Gln
20     25     30
Val Ala Glu Asp Lys Phe Val Phe Asp Leu Pro Asp Tyr Glu Ser Ile
35     40     45
Asn His Val Val Val Phe Met Leu Gly Thr Ile Pro Phe Pro Glu Gly
50     55     60
Met Gly Gly Ser Val Tyr Phe Ser Tyr Pro Asp Ser Asn Gly Met Pro
65     70     75     80
Val Trp Gln Leu Leu Gly Phe Val Thr Asn Gly Lys Pro Ser Ala Ile
85     90     95
Phe Lys Ile Ser Gly Leu Lys Ser Gly Glu Gly Ser Gln His Pro Phe
100    105    110
Gly Ala Met Asn Ile Val Arg Thr Pro Ser Val Ala Gln Ile Gly Ile
115    120    125
Ser Val Glu Leu Leu Asp Ser Met Ala Gln Gln Thr Pro Val Gly Asn
130    135    140
Ala Ala Val Ser Ser Val Asp Ser Phe Thr Gln Phe Thr Gln Lys Met
145    150    155    160
Leu Asp Asn Phe Tyr Asn Phe Ala Ser Ser Phe Ala Val Ser Gln Val
165    170    175
Pro Asp Asp Thr Gln Arg Pro Ser Glu Met Phe Ile Pro Ala Asn Val
180    185    190
Val Leu Lys Trp Tyr Glu Asn Phe Gln Arg Arg Thr Ser Thr Glu Pro
195    200    205
Ser Leu Leu Glu Asn Ile Ile Trp Ile Lys Ile Asn Phe
210    215    220 221

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<210> 2161
<211> 1118
<212> PRT
<213> Homo sapiens

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<400> 2161

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Leu Glu Gly Ser Leu Asn Thr Glu Arg Ala Lys Tyr Tyr Leu Thr Ile
 1 5 10 15
 Thr Met Pro His Phe Thr Val Thr Lys Val Glu Asp Pro Glu Glu Gly
 20 25 30
 Ala Ala Ala Ser Ile Ser Gln Glu Pro Ser Leu Ala Asp Ile Lys Ala
 35 40 45
 Arg Ile Gln Asp Ser Asp Glu Pro Asp Leu Ser Gln Asn Ser Ile Thr
 50 55 60
 Gly Glu His Ser Gln Leu Leu Asp Asp Gly His Lys Lys Ala Arg Asn
 65 70 75 80
 Ala Tyr Leu Asn Asn Ser Asn Tyr Glu Glu Gly Asp Glu Tyr Phe Asp
 85 90 95
 Lys Asn Leu Ala Leu Phe Glu Glu Glu Met Asp Thr Arg Pro Lys Val
 100 105 110
 Ser Ser Leu Leu Asn Arg Met Ala Asn Tyr Thr Asn Leu Thr Gln Gly
 115 120 125
 Ala Lys Glu His Glu Glu Ala Glu Asn Ile Thr Glu Gly Lys Lys Lys
 130 135 140
 Pro Thr Lys Thr Pro Gln Met Gly Thr Phe Met Gly Val Tyr Leu Pro
 145 150 155 160
 Cys Leu Gln Asn Ile Phe Gly Val Ile Leu Phe Leu Arg Leu Thr Trp
 165 170 175
 Val Val Gly Thr Ala Gly Val Leu Gln Ala Phe Ala Ile Val Leu Ile
 180 185 190
 Cys Cys Cys Cys Thr Met Leu Thr Ala Ile Ser Met Ser Ala Ile Ala
 195 200 205
 Thr Asn Gly Val Val Pro Ala Gly Gly Ser Tyr Phe Met Ile Ser Arg
 210 215 220
 Ala Leu Gly Pro Glu Phe Gly Gly Ala Val Gly Leu Cys Phe Tyr Leu
 225 230 235 240
 Gly Thr Thr Phe Ala Ala Ala Met Tyr Ile Leu Gly Ala Ile Glu Ile
 245 250 255
 Phe Leu Val Tyr Ile Val Pro Arg Ala Ala Ile Phe His Ser Asp Asp
 260 265 270
 Ala Leu Lys Glu Ser Ala Ala Met Leu Asn Asn Met Arg Val Tyr Gly
 275 280 285
 Thr Ala Phe Leu Val Leu Met Val Leu Val Val Phe Ile Gly Val Arg
 290 295 300
 Tyr Val Asn Lys Phe Ala Ser Leu Phe Leu Ala Cys Val Ile Val Ser
 305 310 315 320
 Ile Leu Ala Ile Tyr Ala Gly Ala Ile Lys Ser Ser Phe Ala Pro Pro
 325 330 335
 His Phe Pro Val Cys Met Leu Gly Asn Arg Thr Leu Ser Ser Arg His
 340 345 350
 Ile Asp Val Cys Ser Lys Thr Lys Glu Ile Asn Asn Met Thr Val Pro
 355 360 365
 Ser Lys Leu Trp Gly Phe Phe Cys Asn Ser Ser Gln Phe Phe Asn Ala
 370 375 380
 Thr Cys Asp Glu Tyr Phe Val His Asn Asn Val Thr Ser Ile Gln Gly
 385 390 395 400
 Ile Pro Gly Leu Ala Ser Gly Ile Ile Thr Glu Asn Leu Trp Ser Asn
 405 410 415
 Tyr Leu Pro Lys Gly Glu Ile Ile Glu Lys Pro Ser Ala Lys Ser Ser
 420 425 430
 Asp Val Leu Gly Ser Leu Asn His Glu Tyr Val Leu Val Asp Ile Thr
 435 440 445
 Thr Ser Phe Thr Leu Leu Val Gly Ile Phe Phe Pro Ser Val Thr Gly
 450 455 460
 Ile Met Ala Gly Ser Asn Arg Ser Gly Asp Leu Lys Asp Ala Gln Lys
 465 470 475 480
 Ser Ile Pro Ile Gly Thr Ile Leu Ala Ile Leu Thr Thr Ser Phe Val
 485 490 495
 Tyr Leu Ser Asn Val Val Leu Phe Gly Ala Cys Ile Glu Gly Val Val
 500 505 510

Leu Arg Asp Lys Phe Gly Asp Ala Val Lys Gly Asn Leu Val Val Gly
 515 520 525
 Thr Leu Ser Trp Pro Ser Pro Trp Val Ile Val Ile Gly Ser Phe Phe
 530 535 540
 Ser Thr Cys Gly Ala Gly Leu Gln Ser Leu Thr Gly Ala Pro Arg Leu
 545 550 555 560
 Leu Gln Ala Ile Ala Lys Asp Asn Ile Ile Pro Phe Leu Arg Val Phe
 565 570 575
 Gly His Ser Lys Ala Asn Gly Glu Pro Thr Trp Ala Leu Leu Leu Thr
 580 585 590
 Ala Ala Ile Ala Glu Leu Gly Ile Leu Ile Ala Ser Leu Asp Leu Val
 595 600 605
 Ala Pro Ile Leu Ser Met Phe Phe Leu Met Cys Tyr Leu Phe Val Asn
 610 615 620
 Leu Ala Cys Ala Leu Gln Thr Leu Leu Arg Thr Pro Asn Trp Arg Pro
 625 630 635 640
 Arg Phe Arg Tyr Tyr His Trp Ala Leu Ser Phe Met Gly Met Ser Ile
 645 650 655
 Cys Leu Ala Leu Met Phe Ile Ser Ser Trp Tyr Tyr Ala Ile Val Ala
 660 665 670
 Met Val Ile Ala Gly Met Ile Tyr Lys Tyr Ile Glu Tyr Gln Gly Ala
 675 680 685
 Glu Lys Glu Trp Gly Asp Gly Ile Arg Gly Leu Ser Leu Ser Ala Ala
 690 695 700
 Arg Phe Ala Leu Leu Arg Leu Glu Glu Gly Pro Pro His Thr Lys Asn
 705 710 715 720
 Trp Arg Pro Gln Leu Leu Val Leu Leu Lys Leu Asp Glu Asp Leu His
 725 730 735
 Val Lys His Pro Arg Leu Leu Thr Phe Ala Ser Gln Leu Lys Ala Gly
 740 745 750
 Lys Gly Leu Thr Ile Val Gly Ser Val Ile Val Gly Asn Phe Leu Glu
 755 760 765
 Asn Tyr Gly Glu Ala Leu Ala Ala Glu Gln Thr Ile Lys His Leu Met
 770 775 780
 Glu Ala Glu Lys Val Lys Gly Phe Cys Gln Leu Val Val Ala Ala Lys
 785 790 795 800
 Leu Arg Glu Gly Ile Ser His Leu Ile Gln Ser Cys Gly Leu Gly Gly
 805 810 815
 Met Lys His Asn Thr Val Val Met Gly Trp Pro Asn Gly Trp Arg Gln
 820 825 830
 Ser Glu Asp Ala Arg Ala Trp Lys Thr Phe Ile Gly Thr Val Arg Val
 835 840 845
 Thr Thr Ala Ala His Leu Ala Leu Leu Val Ala Lys Asn Ile Ser Phe
 850 855 860
 Phe Pro Ser Asn Val Glu Gln Phe Ser Glu Gly Asn Ile Asp Val Trp
 865 870 875 880
 Trp Ile Val His Asp Gly Gly Met Leu Met Leu Leu Pro Phe Leu Leu
 885 890 895
 Lys Gln His Lys Val Trp Arg Lys Cys Ser Ile Arg Phe Phe Thr Val
 900 905 910
 Ala Gln Leu Glu Asp Asn Ser Ile Gln Met Lys Lys Asp Leu Ala Thr
 915 920 925
 Phe Leu Tyr His Leu Arg Ile Glu Ala Glu Val Glu Val Val Glu Met
 930 935 940
 His Asp Ser Asp Ile Ser Ala Tyr Thr Tyr Glu Arg Thr Leu Met Met
 945 950 955 960
 Glu Gln Arg Ser Gln Met Leu Arg His Met Arg Leu Ser Lys Thr Glu
 965 970 975
 Arg Asp Arg Glu Ala Gln Leu Val Lys Asp Arg Asn Ser Met Leu Arg
 980 985 990
 Leu Thr Ser Ile Gly Ser Asp Glu Asp Glu Glu Thr Glu Thr Tyr Gln
 995 1000 1005
 Glu Lys Val His Met Thr Trp Thr Lys Asp Lys Tyr Met Ala Ser Arg
 1010 1015 1020

Gly Gln Lys Ala Lys Ser Met Glu Gly Phe Gln Asp Leu Leu Asn Met
 1025 1030 1035 1040
 Arg Pro Asp Gln Ser Asn Val Arg Arg Met His Thr Ala Val Lys Leu
 1045 1050 1055
 Asn Glu Val Ile Val Asn Lys Ser His Glu Ala Lys Leu Val Leu Leu
 1060 1065 1070
 Asn Met Pro Gly Pro Pro Arg Asn Pro Glu Gly Asp Glu Asn Tyr Met
 1075 1080 1085
 Glu Phe Leu Glu Val Leu Thr Glu Gly Leu Glu Arg Val Leu Leu Val
 1090 1095 1100
 Arg Gly Gly Gly Ser Glu Val Ile Thr Ile Tyr Ser
 1105 1110 1115 1116

<210> 2162
 <211> 192
 <212> PRT
 <213> Homo sapiens

<400> 2162
 Ala Val Cys Thr Met Ser Glu Met Ala Glu Leu Ser Glu Leu Tyr Glu
 1 5 10 15
 Glu Ser Ser Asp Leu Gln Met Asp Val Met Pro Gly Glu Gly Asp Leu
 20 25 30
 Pro Gln Met Glu Val Gly Ser Gly Ser Arg Glu Leu Ser Leu Arg Pro
 35 40 45
 Ser Arg Ser Gly Ala Gln Gln Leu Glu Glu Glu Gly Pro Met Glu Glu
 50 55 60
 Glu Glu Ala Gln Pro Met Ala Ala Pro Glu Gly Lys Arg Ser Leu Ala
 65 70 75 80
 Asn Gly Pro Asn Ala Gly Glu Gln Pro Gly Gln Val Ala Gly Ala Asp
 85 90 95
 Phe Glu Ser Glu Asp Glu Gly Glu Glu Phe Asp Asp Trp Glu Asp Asp
 100 105 110
 Tyr Asp Tyr Pro Glu Glu Glu Gln Leu Ser Gly Ala Gly Tyr Arg Val
 115 120 125
 Ser Ala Ala Leu Glu Glu Ala Asp Lys Met Phe Leu Arg Thr Arg Glu
 130 135 140
 Pro Ala Leu Asp Gly Gly Phe Gln Met His Tyr Glu Lys Thr Pro Phe
 145 150 155 160
 Asp Gln Leu Ala Phe Ile Glu Glu Leu Phe Ser Leu Met Val Val Asn
 165 170 175
 Arg Leu Thr Glu Glu Leu Gly Cys Asp Glu Ile Ile Asp Arg Glu
 180 185 190 191

<210> 2163
 <211> 217
 <212> PRT
 <213> Homo sapiens

<400> 2163
 Ala Lys Met Gly Ala Tyr Lys Tyr Ile Gln Glu Leu Trp Arg Lys Lys
 1 5 10 15
 Gln Ser Asp Val Met Arg Phe Leu Leu Arg Val Arg Cys Trp Gln Tyr
 20 25 30
 Arg Gln Leu Ser Ala Leu His Arg Ala Pro Arg Pro Thr Arg Pro Asp
 35 40 45
 Lys Ala Arg Arg Leu Gly Tyr Lys Ala Lys Gln Gly Tyr Val Tyr Ile
 50 55 60

Tyr Ile Gly Phe Val Phe Ala Val Ile Tyr Arg Ile Arg Val Arg Arg
 65 70 75 80
 Gly Gly Arg Lys Arg Pro Val Pro Lys Gly Ala Thr Tyr Gly Lys Pro
 85 90 95
 Val His His Gly Val Asn Gln Leu Lys Phe Ala Arg Ser Leu Gln Ser
 100 105 110
 Val Ala Glu Glu Arg Ala Gly Arg His Cys Gly Ala Leu Arg Val Leu
 115 120 125
 Asn Ser Tyr Trp Val Gly Glu Asp Ser Thr Tyr Lys Phe Phe Glu Val
 130 135 140
 Ile Leu Ile Asp Pro Phe His Lys Ala Ile Arg Arg Asn Pro Asp Thr
 145 150 155 160
 Gln Trp Ile Thr Lys Pro Val His Lys His Arg Glu Met Arg Gly Leu
 165 170 175
 Thr Ser Ala Gly Arg Lys Ser Arg Gly Leu Gly Lys Gly His Lys Phe
 180 185 190
 His His Thr Ile Gly Gly Ser Arg Arg Ala Ala Trp Arg Arg Arg Asn
 195 200 205
 Thr Leu Gln Leu His Arg Tyr Arg
 210 215 216

<210> 2164
 <211> 502
 <212> PRT
 <213> Homo sapiens

<400> 2164
 Lys Gly Thr Glu Met Asn Lys Ser Arg Trp Gln Ser Arg Arg Arg His
 1 5 10 15
 Gly Arg Arg Ser His Gln Gln Asn Pro Trp Phe Arg Leu Arg Asp Ser
 20 25 30
 Glu Asp Arg Ser Asp Ser Arg Ala Ala Gln Pro Ala His Asp Ser Gly
 35 40 45
 His Gly Asp Asp Glu Ser Pro Ser Thr Ser Ser Gly Thr Ala Gly Thr
 50 55 60
 Ser Ser Val Pro Glu Leu Pro Gly Phe Tyr Phe Asp Pro Glu Lys Lys
 65 70 75 80
 Arg Tyr Phe Arg Leu Leu Pro Gly His Asn Asn Cys Asn Pro Leu Thr
 85 90 95
 Lys Glu Ser Ile Arg Gln Lys Glu Met Glu Ser Lys Arg Leu Arg Leu
 100 105 110
 Leu Gln Glu Glu Asp Arg Arg Lys Lys Ile Ala Arg Met Gly Phe Asn
 115 120 125
 Ala Ser Ser Met Leu Arg Lys Ser Gln Leu Gly Phe Leu Asn Val Thr
 130 135 140
 Asn Tyr Cys His Leu Ala His Glu Leu Arg Leu Ser Cys Met Glu Arg
 145 150 155 160
 Lys Lys Val Gln Ile Arg Ser Met Asp Pro Ser Ala Leu Ala Ser Asp
 165 170 175
 Arg Phe Asn Leu Ile Leu Ala Asp Thr Asn Ser Asp Arg Leu Phe Thr
 180 185 190
 Val Asn Asp Val Thr Val Gly Gly Ser Lys Tyr Gly Ile Ile Asn Leu
 195 200 205
 Gln Ser Leu Lys Thr Pro Thr Leu Lys Val Phe Met His Glu Asn Leu
 210 215 220
 Tyr Phe Thr Asn Arg Lys Val Asn Ser Val Cys Trp Ala Ser Leu Asn
 225 230 235 240
 His Leu Asp Ser His Ile Leu Leu Cys Leu Met Gly Leu Ala Glu Thr
 245 250 255
 Pro Gly Cys Ala Thr Leu Leu Pro Ala Ser Leu Phe Val Asn Ser His
 260 265 270

Pro Ala Gly Ile Asp Arg Pro Gly Met Leu Cys Ser Phe Arg Ile Pro
 275 280 285
 Gly Ala Trp Ser Cys Ala Trp Ser Leu Asn Ile Gln Ala Asn Asn Cys
 290 295 300
 Phe Ser Thr Gly Leu Ser Arg Arg Val Leu Leu Thr Asn Val Val Thr
 305 310 315 320
 Gly His Arg Gln Ser Phe Gly Thr Asn Ser Asp Val Leu Ala Gln Gln
 325 330 335
 Phe Ala Leu Met Ala Pro Leu Leu Phe Asn Gly Cys Arg Ser Gly Glu
 340 345 350
 Ile Phe Ala Ile Asp Leu Arg Cys Gly Asn Gln Gly Lys Gly Trp Lys
 355 360 365
 Ala Thr Arg Leu Phe His Asp Ser Ala Val Thr Ser Val Arg Ile Leu
 370 375 380
 Gln Asp Glu Gln Tyr Leu Met Ala Ser Asp Met Ala Gly Lys Ile Lys
 385 390 395 400
 Leu Trp Asp Leu Arg Thr Thr Lys Cys Val Arg Gln Tyr Glu Gly His
 405 410 415
 Val Asn Glu Tyr Ala Tyr Leu Pro Leu His Val His Glu Glu Glu Gly
 420 425 430
 Ile Leu Val Ala Val Gly Gln Asp Cys Tyr Thr Arg Ile Trp Ser Leu
 435 440 445
 His Asp Ala Arg Leu Leu Arg Thr Ile Pro Ser Pro Tyr Pro Ala Ser
 450 455 460
 Lys Ala Asp Ile Pro Ser Val Ala Phe Ser Ser Arg Leu Gly Gly Ser
 465 470 475 480
 Arg Gly Ala Pro Gly Leu Leu Met Ala Val Gly Gln Asp Leu Tyr Cys
 485 490 495
 Tyr Ser Tyr Ser
 500

<210> 2165
 <211> 874
 <212> PRT
 <213> Homo sapiens

<400> 2165
 Asn Lys Asn Ile Leu Glu Val Pro Ser Ala Arg Thr Thr Arg Ile Met
 1 5 10 15
 Gly Asp His Leu Asp Leu Leu Leu Gly Val Val Leu Met Ala Gly Pro
 20 25 30
 Val Phe Gly Ile Pro Ser Cys Ser Phe Asp Gly Arg Ile Ala Phe Tyr
 35 40 45
 Arg Phe Cys Asn Leu Thr Gln Val Pro Gln Val Leu Asn Thr Thr Glu
 50 55 60
 Arg Leu Leu Leu Ser Phe Asn Tyr Ile Arg Thr Val Thr Ala Ser Ser
 65 70 75 80
 Phe Pro Phe Leu Glu Gln Leu Gln Leu Leu Glu Leu Gly Ser Gln Tyr
 85 90 95
 Thr Pro Leu Thr Ile Asp Lys Glu Ala Phe Arg Asn Leu Pro Asn Leu
 100 105 110
 Arg Ile Leu Asp Leu Gly Ser Ser Lys Ile Tyr Phe Leu His Pro Asp
 115 120 125
 Ala Phe Gln Gly Leu Phe His Leu Phe Glu Leu Arg Leu Tyr Phe Cys
 130 135 140
 Gly Leu Ser Asp Ala Val Leu Lys Asp Gly Tyr Phe Arg Asn Leu Lys
 145 150 155 160
 Ala Leu Thr Arg Leu Asp Leu Ser Lys Asn Gln Ile Arg Ser Leu Tyr
 165 170 175
 Leu His Pro Ser Phe Gly Lys Leu Asn Ser Leu Lys Ser Ile Asp Phe
 180 185 190

Ser Ser Asn Gln Ile Phe Leu Val Cys Glu His Glu Leu Glu Pro Leu
 195 200 205
 Gln Gly Lys Thr Leu Ser Phe Phe Ser Leu Ala Ala Asn Ser Leu Tyr
 210 215 220
 Ser Arg Val Ser Val Asp Trp Gly Lys Cys Met Asn Pro Phe Arg Asn
 225 230 235 240
 Met Val Leu Glu Ile Leu Asp Val Ser Gly Asn Gly Trp Thr Val Asp
 245 250 255
 Ile Thr Gly Asn Phe Ser Asn Ala Ile Ser Lys Ser Gln Ala Phe Ser
 260 265 270
 Leu Ile Leu Ala His His Ile Met Gly Ala Gly Phe Gly Phe His Asn
 275 280 285
 Ile Lys Asp Pro Asp Gln Asn Thr Phe Ala Gly Leu Ala Arg Ser Ser
 290 295 300
 Val Arg His Leu Asp Leu Ser His Gly Phe Val Phe Ser Leu Asn Ser
 305 310 315 320
 Arg Val Phe Glu Thr Leu Lys Asp Leu Lys Val Leu Asn Leu Ala Tyr
 325 330 335
 Asn Lys Ile Asn Lys Ile Ala Asp Glu Ala Phe Tyr Gly Leu Asp Asn
 340 345 350
 Leu Gln Val Leu Asn Leu Ser Tyr Asn Leu Leu Gly Glu Leu Tyr Ser
 355 360 365
 Ser Asn Phe Tyr Gly Leu Pro Lys Val Ala Tyr Ile Asp Leu Gln Lys
 370 375 380
 Asn His Ile Ala Ile Ile Gln Asp Gln Thr Phe Lys Phe Leu Glu Lys
 385 390 395 400
 Leu Gln Thr Leu Asp Leu Arg Asp Asn Ala Leu Thr Thr Ile His Phe
 405 410 415
 Ile Pro Ser Ile Pro Asp Ile Phe Leu Ser Gly Asn Lys Leu Val Thr
 420 425 430
 Leu Pro Lys Ile Asn Leu Thr Ala Asn Leu Ile His Leu Ser Glu Asn
 435 440 445
 Arg Leu Glu Asn Leu Asp Ile Leu Tyr Phe Leu Leu Arg Val Pro His
 450 455 460
 Leu Gln Ile Leu Ile Leu Asn Gln Asn Arg Phe Ser Ser Cys Ser Gly
 465 470 475 480
 Asp Gln Thr Pro Ser Glu Asn Pro Ser Leu Glu Gln Leu Phe Leu Gly
 485 490 495
 Glu Asn Met Leu Gln Leu Ala Trp Glu Thr Glu Leu Cys Trp Asp Val
 500 505 510
 Phe Glu Gly Leu Ser His Leu Gln Val Leu Tyr Leu Asn His Asn Tyr
 515 520 525
 Leu Asn Ser Leu Pro Pro Gly Val Phe Ser His Leu Thr Ala Leu Arg
 530 535 540
 Gly Leu Ser Leu Asn Ser Asn Arg Leu Thr Val Leu Ser His Asn Asp
 545 550 555 560
 Leu Pro Ala Asn Leu Glu Ile Leu Asp Ile Ser Arg Asn Gln Leu Leu
 565 570 575
 Ala Pro Asn Pro Asp Val Phe Val Ser Leu Ser Val Leu Asp Ile Thr
 580 585 590
 His Asn Lys Phe Ile Cys Glu Cys Glu Leu Ser Thr Phe Ile Asn Trp
 595 600 605
 Leu Asn His Thr Asn Val Thr Ile Ala Gly Pro Pro Ala Asp Ile Tyr
 610 615 620
 Cys Val Tyr Pro Asp Ser Leu Ser Gly Val Ser Leu Phe Ser Leu Ser
 625 630 635 640
 Thr Glu Gly Cys Asp Glu Glu Glu Val Leu Lys Ser Leu Lys Phe Ser
 645 650 655
 Leu Phe Ile Val Cys Thr Val Thr Leu Thr Leu Phe Leu Met Thr Ile
 660 665 670
 Leu Thr Val Thr Lys Phe Arg Gly Phe Cys Phe Ile Cys Tyr Lys Thr
 675 680 685
 Ala Gln Arg Leu Val Phe Lys Asp His Pro Gln Gly Thr Glu Pro Asp
 690 695 700

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Met Tyr Lys Tyr Asp Ala Tyr Leu Cys Phe Ser Ser Lys Asp Phe Thr
705          710          715          720
Trp Val Gln Asn Ala Leu Leu Lys His Leu Asp Thr Gln Tyr Ser Asp
          725          730          735
Gln Asn Arg Phe Asn Leu Cys Phe Glu Arg Asp Phe Val Pro Gly
          740          745          750
Glu Asn Arg Pro Ala Asn Ile Gln Asp Ala Ile Trp Asn Ser Arg Lys
          755          760          765
Ile Val Cys Leu Val Ser Arg His Phe Leu Arg Asp Gly Trp Cys Leu
          770          775          780
Glu Ala Phe Ser Tyr Ala Gln Gly Arg Cys Leu Ser Asp Leu Asn Ser
785          790          795          800
Ala Leu Ile Met Val Val Val Gly Ser Leu Ser Gln Tyr Gln Leu Met
          805          810          815
Lys His Gln Ser Ile Arg Gly Phe Val Gln Lys Gln Gln Tyr Leu Arg
          820          825          830
Trp Pro Glu Asp Leu Gln Asp Val Gly Trp Phe Leu His Lys Leu Ser
          835          840          845
Gln Gln Ile Leu Lys Lys Glu Lys Glu Lys Lys Lys Asp Asn Asn Ile
          850          855          860
Pro Leu Gln Thr Val Ala Thr Ile Ser
865          870          873

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<210> 2166
<211> 1272
<212> PRT
<213> Homo sapiens

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<400> 2166
Arg Asp Arg Ala Gly Val Arg Pro Ala Gly Lys Gln His Ala Ala Ala
1          5          10          15
Ala Phe Tyr Asp Val Gly Gly Asp Arg Pro Trp Asp Ser Gly Asn Thr
          20          25          30
Gln Leu Pro Pro Arg Asn Pro Val Lys Ala Asn Ala Met Phe Gly Ala
          35          40          45
Gly Asp Glu Asp Asp Thr Asp Phe Leu Ser Pro Ser Gly Gly Ala Arg
          50          55          60
Leu Ala Ser Leu Phe Gly Leu Asp Gln Ala Ala Gly His Gly Asn
          65          70          75          80
Glu Phe Phe Gln Tyr Thr Ala Pro Lys Gln Pro Lys Lys Gly Gln Gly
          85          90          95
Thr Ala Ala Thr Gly Asn Gln Ala Thr Pro Lys Thr Ala Pro Ala Thr
          100          105          110
Met Ser Thr Pro Thr Ile Leu Val Ala Thr Ala Val His Ala Tyr Arg
          115          120          125
Tyr Thr Asn Gly Gln Tyr Val Lys Gln Gly Lys Phe Gly Ala Ala Val
          130          135          140
Leu Gly Asn His Thr Thr Arg Glu Tyr Arg Ile Leu Leu Tyr Ile Ser
          145          150          155          160
Gln Gln Gln Pro Val Thr Val Ala Arg Ile His Val Asn Phe Glu Leu
          165          170          175
Met Val Arg Pro Asn Asn Tyr Ser Thr Phe Tyr Asp Asp Gln Arg Gln
          180          185          190
Asn Trp Ser Ile Met Phe Glu Ser Glu Lys Ala Ala Val Glu Phe Asn
          195          200          205
Lys Gln Val Cys Ile Ala Lys Cys Asn Ser Thr Ser Ser Leu Asp Ala
          210          215          220
Val Leu Ser Gln Asp Leu Ile Val Ala Asp Gly Pro Ala Val Glu Val
          225          230          235          240
Gly Asp Ser Leu Glu Val Ala Tyr Thr Gly Trp Leu Phe Gln Asn His
          245          250          255

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Val Leu Gly Gln Val Phe Asp Ser Thr Ala Asn Lys Asp Lys Leu Leu
 260 265 270
 Arg Leu Lys Leu Gly Ser Gly Lys Val Ile Lys Gly Trp Glu Asp Gly
 275 280 285
 Met Leu Gly Met Lys Lys Gly Gly Lys Arg Leu Leu Ile Val Pro Pro
 290 295 300
 Ala Cys Ala Val Gly Ser Glu Gly Val Ile Gly Trp Thr Gln Ala Thr
 305 310 315 320
 Asp Ser Ile Leu Val Phe Glu Val Glu Val Arg Arg Val Lys Ile Ala
 325 330 335
 Lys Asp Ser Gly Ser Asp Gly His Ser Val Ser Ser Arg Asp Ser Ala
 340 345 350
 Ala Pro Ser Pro Ile Pro Gly Ala Asp Asn Leu Ser Ala Asp Pro Val
 355 360 365
 Val Ser Pro Pro Thr Ser Ile Pro Phe Lys Ser Gly Glu Pro Ala Leu
 370 375 380
 Arg Thr Lys Ser Asn Ser Leu Ser Glu Gln Leu Ala Ile Asn Thr Ser
 385 390 395 400
 Pro Asp Ala Val Lys Ala Lys Leu Ile Ser Arg Met Ala Lys Met Gly
 405 410 415
 Gln Pro Met Leu Pro Ile Leu Pro Pro Gln Leu Asp Ser Asn Asp Ser
 420 425 430
 Glu Ile Glu Asp Val Asn Thr Leu Gln Gly Gly Gly Gln Pro Val Val
 435 440 445
 Thr Pro Ser Val Gln Pro Ser Leu Gln Pro Ala His Pro Ala Leu Pro
 450 455 460
 Gln Met Thr Ser Gln Ala Pro Gln Pro Ser Val Thr Gly Leu Gln Ala
 465 470 475 480
 Pro Ser Ala Ala Leu Met Gln Val Ser Ser Leu Asp Ser His Ser Ala
 485 490 495
 Val Ser Gly Asn Ala Gln Ser Phe Gln Pro Tyr Ala Gly Met Gln Ala
 500 505 510
 Tyr Ala Tyr Pro Gln Ala Ser Ala Val Thr Ser Gln Leu Gln Pro Val
 515 520 525
 Arg Pro Leu Tyr Pro Ala Pro Leu Ser Gln Pro Pro His Phe Gln Gly
 530 535 540
 Ser Gly Asp Met Ala Ser Phe Leu Met Thr Glu Ala Arg Gln His Asn
 545 550 555 560
 Thr Glu Ile Arg Met Ala Val Ser Lys Val Ala Asp Lys Met Asp His
 565 570 575
 Leu Met Thr Lys Val Glu Glu Leu Gln Lys His Ser Ala Gly Asn Ser
 580 585 590
 Met Leu Ile Pro Ser Met Ser Val Thr Met Glu Thr Ser Met Ile Met
 595 600 605
 Ser Asn Ile Gln Arg Ile Ile Gln Glu Asn Glu Arg Leu Lys Gln Glu
 610 615 620
 Ile Leu Glu Lys Ser Asn Arg Ile Glu Glu Gln Asn Asp Lys Ile Ser
 625 630 635 640
 Glu Leu Ile Glu Arg Asn Gln Arg Tyr Val Glu Gln Ser Asn Leu Met
 645 650 655
 Met Glu Lys Arg Asn Asn Ser Leu Gln Thr Ala Thr Glu Asn Thr Gln
 660 665 670
 Ala Arg Val Leu His Ala Glu Gln Glu Lys Ala Lys Val Thr Glu Glu
 675 680 685
 Leu Ala Ala Ala Thr Ala Gln Val Ser His Leu Gln Leu Lys Met Thr
 690 695 700
 Ala His Gln Lys Lys Glu Thr Glu Leu Gln Met Gln Leu Thr Glu Ser
 705 710 715 720
 Leu Lys Glu Thr Asp Leu Leu Arg Gly Gln Leu Thr Lys Val Gln Ala
 725 730 735
 Lys Leu Ser Glu Leu Gln Glu Thr Ser Glu Gln Ala Gln Ser Lys Phe
 740 745 750
 Lys Ser Glu Lys Gln Asn Arg Lys Gln Leu Glu Leu Lys Val Thr Ser
 755 760 765

Leu Glu Glu Glu Leu Thr Asp Leu Arg Val Glu Lys Glu Ser Leu Glu
 770 775 780
 Lys Asn Leu Ser Glu Arg Lys Lys Lys Ser Ala Gln Glu Arg Ser Gln
 785 790 795 800
 Ala Glu Glu Glu Ile Asp Glu Ile Arg Lys Ser Tyr Gln Glu Glu Leu
 805 810 815
 Asp Lys Leu Arg Gln Leu Leu Lys Lys Thr Arg Val Ser Thr Asp Gln
 820 825 830
 Ala Ala Ala Glu Gln Leu Ser Leu Val Gln Ala Glu Leu Gln Thr Gln
 835 840 845
 Trp Glu Ala Lys Cys Glu His Leu Leu Ala Ser Ala Lys Asp Glu His
 850 855 860
 Leu Gln Gln Tyr Gln Glu Val Cys Ala Gln Arg Asp Ala Tyr Gln Gln
 865 870 875 880
 Lys Leu Val Gln Leu Gln Glu Lys Ser Val Cys Phe Ala Cys Leu Ala
 885 890 895
 Leu Gln Ala Gln Ile Thr Ala Leu Thr Lys Gln Asn Glu Gln His Ile
 900 905 910
 Lys Glu Leu Glu Lys Asn Lys Ser Gln Met Ser Gly Val Glu Ala Ala
 915 920 925
 Ala Ser Asp Pro Ser Glu Lys Val Lys Lys Ile Met Asn Gln Val Phe
 930 935 940
 Gln Ser Leu Arg Arg Glu Phe Glu Leu Glu Glu Ser Tyr Asn Gly Arg
 945 950 955 960
 Thr Ile Leu Gly Thr Ile Met Asn Thr Ile Lys Met Val Thr Leu Gln
 965 970 975
 Leu Leu Asn Gln Gln Glu Gln Glu Lys Glu Glu Ser Ser Ser Glu Glu
 980 985 990
 Glu Glu Glu Lys Ala Glu Glu Arg Pro Arg Arg Pro Ser Gln Glu Gln
 995 1000 1005
 Ser Ala Ser Ala Ser Ser Gly Gln Pro Gln Ala Pro Leu Asn Arg Glu
 1010 1015 1020
 Arg Pro Glu Ser Pro Met Val Pro Ser Glu Gln Val Val Glu Glu Ala
 1025 1030 1035 1040
 Val Pro Leu Pro Pro Gln Ala Leu Thr Thr Ser Gln Asp Gly His Arg
 1045 1050 1055
 Arg Lys Gly Asp Ser Glu Ala Glu Ala Leu Ser Glu Ile Lys Asp Gly
 1060 1065 1070
 Ser Leu Pro Pro Glu Leu Ser Cys Ile Pro Ser His Arg Val Leu Gly
 1075 1080 1085
 Pro Pro Thr Ser Ile Pro Pro Glu Pro Leu Gly Pro Val Ser Met Asp
 1090 1095 1100
 Ser Glu Cys Glu Glu Ser Leu Ala Ala Ser Pro Met Ala Ala Lys Pro
 1105 1110 1115 1120
 Asp Asn Pro Ser Gly Lys Val Cys Val Arg Glu Val Ala Pro Asp Gly
 1125 1130 1135
 Pro Leu Gln Glu Ser Ser Thr Arg Leu Ser Leu Thr Ser Asp Pro Glu
 1140 1145 1150
 Glu Gly Asp Pro Leu Ala Leu Gly Pro Glu Ser Pro Gly Glu Pro Gln
 1155 1160 1165
 Pro Pro Gln Leu Lys Lys Asp Asp Val Thr Ser Ser Thr Gly Pro His
 1170 1175 1180
 Lys Glu Leu Ser Ser Thr Glu Ala Gly Ser Thr Val Ala Gly Ala Ala
 1185 1190 1195 1200
 Leu Arg Pro Ser His His Ser Gln Arg Ser Ser Leu Ser Gly Asp Glu
 1205 1210 1215
 Glu Asp Glu Leu Phe Lys Gly Ala Thr Leu Lys Ala Leu Arg Pro Lys
 1220 1225 1230
 Ala Gln Pro Glu Glu Glu Asp Glu Asp Glu Val Ser Met Lys Gly Arg
 1235 1240 1245
 Pro Pro Pro Thr Pro Leu Phe Gly Asp Asp Asp Asp Asp Asp Ile
 1250 1255 1260
 Asp Trp Leu Gly
 1265 1268

<210> 2167
 <211> 339
 <212> PRT
 <213> Homo sapiens

<400> 2167
 Phe Phe Arg Ser Ser Ser Asp Asn Gly Ser Pro Ile Arg Gln Tyr Glu
 1 5 10 15
 His Ser Thr Pro Ala His Gln Gly Pro Val Met Gly Leu Glu Gly Lys
 20 25 30
 Ser Ala Arg Asn Ser Gln Leu Arg Ile Val Leu Val Gly Lys Thr Gly
 35 40 45
 Ala Gly Lys Ser Ala Thr Gly Asn Ser Ile Leu Gly Arg Lys Val Phe
 50 55 60
 His Ser Gly Thr Ala Ala Lys Ser Ile Thr Lys Lys Cys Glu Lys Arg
 65 70 75 80
 Ser Ser Ser Trp Lys Glu Thr Glu Leu Val Val Val Asp Thr Pro Gly
 85 90 95
 Ile Phe Asp Thr Glu Val Pro Asn Ala Glu Thr Ser Lys Glu Ile Ile
 100 105 110
 Arg Cys Ile Leu Leu Thr Ser Pro Gly Pro His Ala Leu Leu Val
 115 120 125
 Val Pro Leu Gly Arg Tyr Thr Glu Glu Glu His Lys Ala Thr Glu Lys
 130 135 140
 Ile Leu Lys Met Phe Gly Glu Arg Ala Arg Ser Phe Met Ile Leu Ile
 145 150 155 160
 Phe Thr Arg Lys Asp Asp Leu Gly Asp Thr Asn Leu His Asp Tyr Leu
 165 170 175
 Arg Glu Ala Pro Glu Asp Ile Gln Asp Leu Met Asp Ile Phe Gly Asp
 180 185 190
 Arg Tyr Cys Ala Leu Asn Asn Lys Ala Thr Gly Ala Glu Gln Glu Ala
 195 200 205
 Gln Arg Ala Gln Leu Leu Gly Leu Ile Gln Arg Val Val Arg Glu Asn
 210 215 220
 Lys Glu Gly Cys Tyr Thr Asn Arg Met Tyr Gln Arg Ala Glu Glu Glu
 225 230 235 240
 Ile Gln Lys Gln Thr Gln Ala Met Gln Glu Leu His Arg Val Glu Leu
 245 250 255
 Glu Arg Glu Lys Ala Arg Ile Arg Glu Glu Tyr Glu Glu Lys Ile Arg
 260 265 270
 Lys Leu Glu Asp Lys Val Glu Gln Glu Lys Arg Lys Lys Gln Met Glu
 275 280 285
 Lys Lys Leu Ala Glu Gln Glu Ala His Tyr Ala Val Arg Gln Gln Arg
 290 295 300
 Ala Arg Thr Glu Val Glu Ser Lys Asp Gly Ile Leu Glu Leu Ile Met
 305 310 315 320
 Thr Ala Leu Gln Ile Ala Ser Phe Ile Leu Leu Arg Leu Phe Ala Glu
 325 330 335
 Asp
 337

<210> 2168
 <211> 514
 <212> PRT
 <213> Homo sapiens

<400> 2168

Ala Pro Ser Gly Ser Trp Thr Arg Val Val Leu Thr Leu Asp Pro Cys
 1 5 10 15
 Ser Leu Arg Ser Arg Ser Pro Arg Ser Leu Leu Asp Pro Gly Met Pro
 20 25 30
 Gly Ile Ser Ala Arg Gly Leu Ser His Glu Gly Arg Lys Gln Leu Ala
 35 40 45
 Val Asn Leu Thr Arg Val Leu Ala Leu Tyr Arg Ser Ile Leu Asp Ala
 50 55 60
 Tyr Ile Ile Glu Phe Phe Thr Asp Asn Leu Trp Asp Thr Leu Pro Cys
 65 70 75 80
 Ser Trp Gln Glu Ala Leu Asp Gly Leu Lys Pro Pro Gln Leu Ala Thr
 85 90 95
 Met Leu Leu Gly Met Pro Gly Glu Gly Glu Val Val Arg Tyr Arg Ser
 100 105 110
 Val Trp Pro Leu Thr Leu Leu Ala Leu Lys Ser Thr Ala Cys Ala Leu
 115 120 125
 Ala Phe Thr Arg Met Pro Gly Phe Gln Thr Pro Ser Glu Phe Leu Glu
 130 135 140
 Asn Pro Ser Gln Ser Ser Arg Leu Thr Ala Pro Phe Arg Lys His Val
 145 150 155 160
 Arg Pro Lys Lys Gln His Glu Ile Arg Arg Leu Gly Glu Leu Val Lys
 165 170 175
 Lys Leu Ser Asp Phe Thr Gly Leu His Pro Gly Cys Arg Arg Gly Leu
 180 185 190
 Arg Pro Gly His Leu Ser Arg Phe Met Ala Leu Gly Leu Gly Leu Met
 195 200 205
 Val Lys Ser Ile Glu Gly Asp Gln Arg Leu Val Glu Arg Ala Gln Arg
 210 215 220
 Leu Asp Gln Glu Leu Leu Gln Ala Leu Glu Lys Glu Glu Lys Arg Asn
 225 230 235 240
 Pro Gln Val Val Gln Thr Ser Pro Arg His Ser Pro His His Val Val
 245 250 255
 Arg Trp Val Asp Pro Thr Ala Leu Cys Glu Glu Leu Leu Leu Pro Leu
 260 265 270
 Glu Asn Pro Cys Gln Gly Arg Ala Arg Leu Leu Leu Thr Gly Leu His
 275 280 285
 Ala Cys Gly Asp Leu Ser Val Ala Leu Leu Arg His Phe Ser Cys Cys
 290 295 300
 Pro Glu Val Val Ala Leu Ala Ser Val Gly Cys Cys Tyr Met Lys Leu
 305 310 315 320
 Ser Asp Pro Gly Gly Tyr Pro Leu Ser Gln Trp Val Ala Gly Leu Pro
 325 330 335
 Gly Tyr Glu Leu Pro Tyr Arg Leu Arg Glu Gly Ala Cys His Ala Leu
 340 345 350
 Glu Glu Tyr Ala Glu Arg Leu Gln Lys Ala Gly Pro Gly Leu Arg Thr
 355 360 365
 His Cys Tyr Arg Ala Ala Leu Glu Thr Val Ile Arg Arg Ala Arg Pro
 370 375 380
 Glu Leu Arg Arg Pro Gly Val Gln Gly Ile Pro Arg Val His Glu Leu
 385 390 395 400
 Lys Ile Glu Glu Tyr Val Gln Arg Gly Leu Gln Arg Val Gly Leu Asp
 405 410 415
 Pro Gln Leu Pro Leu Asn Leu Ala Ala Leu Gln Ala His Leu Ala Gln
 420 425 430
 Glu Asn Arg Val Val Ala Phe Phe Ser Leu Ala Leu Leu Leu Ala Pro
 435 440 445
 Leu Val Glu Thr Leu Ile Leu Leu Asp Arg Leu Leu Tyr Leu Gln Glu
 450 455 460
 Gln Ala Leu Ser Pro Gly Phe His Ala Glu Leu Leu Pro Ile Phe Ser
 465 470 475 480
 Pro Glu Leu Ser Pro Arg Asn Leu Val Leu Val Ala Thr Lys Met Pro
 485 490 495
 Leu Gly Gln Ala Leu Ser Val Leu Glu Thr Glu Asp Ser
 500 505 509

<210> 2169
 <211> 877
 <212> PRT
 <213> Homo sapiens

<400> 2169
 Ser Gly Ser Gly His Cys Leu Ala Glu Ala Ala Ser Met Gly Pro Trp
 1 5 10 15
 Gly Trp Lys Leu Arg Trp Thr Val Ala Leu Leu Ala Ala Gly
 20 25 30
 Thr Ala Val Gly Asp Arg Cys Glu Arg Asn Glu Phe Gln Cys Gln Asp
 35 40 45
 Gly Lys Cys Ile Ser Tyr Lys Trp Val Cys Asp Gly Ser Ala Glu Cys
 50 55 60
 Gln Asp Gly Ser Asp Glu Ser Gln Glu Thr Cys Leu Ser Val Thr Cys
 65 70 75 80
 Lys Ser Gly Asp Phe Ser Cys Gly Gly Arg Val Asn Arg Cys Ile Pro
 85 90 95
 Gln Phe Trp Arg Cys Asp Gly Gln Val Asp Cys Asp Asn Gly Ser Asp
 100 105 110
 Glu Gln Gly Cys Pro Pro Lys Thr Cys Ser Gln Asp Glu Phe Arg Cys
 115 120 125
 His Asp Gly Lys Cys Ile Ser Arg Gln Phe Val Cys Asp Ser Asp Arg
 130 135 140
 Asp Cys Leu Asp Gly Ser Asp Glu Ala Ser Cys Pro Val Leu Thr Cys
 145 150 155 160
 Gly Pro Ala Ser Phe Gln Cys Asn Ser Ser Thr Cys Ile Pro Gln Leu
 165 170 175
 Trp Ala Cys Asp Asn Asp Pro Asp Cys Glu Asp Gly Ser Asp Glu Trp
 180 185 190
 Pro Gln Arg Cys Arg Gly Leu Tyr Val Phe Gln Gly Asp Ser Ser Pro
 195 200 205
 Cys Ser Ala Phe Glu Phe His Cys Leu Ser Gly Glu Cys Ile His Ser
 210 215 220
 Ser Trp Arg Cys Asp Gly Gly Pro Asp Cys Lys Asp Lys Ser Asp Glu
 225 230 235 240
 Glu Asn Cys Ala Val Ala Thr Cys Arg Pro Asp Glu Phe Gln Cys Ser
 245 250 255
 Asp Gly Asn Cys Ile His Gly Ser Arg Gln Cys Asp Arg Glu Tyr Asp
 260 265 270
 Cys Lys Asp Met Ser Asp Glu Val Gly Cys Val Asn Val Thr Leu Cys
 275 280 285
 Glu Gly Pro Asn Lys Phe Lys Cys His Ser Gly Glu Cys Ile Thr Leu
 290 295 300
 Asp Lys Val Cys Asn Met Ala Arg Asp Cys Arg Asp Trp Ser Asp Glu
 305 310 315 320
 Pro Ile Lys Glu Cys Gly Thr Asn Glu Cys Leu Asp Asn Asn Gly Gly
 325 330 335
 Cys Ser His Val Cys Asn Asp Leu Lys Ile Gly Tyr Glu Cys Leu Cys
 340 345 350
 Pro Asp Gly Phe Gln Leu Val Ala Gln Arg Arg Cys Glu Asp Ile Asp
 355 360 365
 Glu Cys Gln Asp Pro Asp Thr Cys Ser Gln Leu Cys Val Asn Leu Glu
 370 375 380
 Gly Gly Tyr Lys Cys Gln Cys Glu Glu Gly Phe Gln Leu Asp Pro His
 385 390 395 400
 Thr Lys Ala Cys Lys Ala Val Gly Ser Ile Ala Tyr Leu Phe Phe Thr
 405 410 415
 Asn Arg His Glu Val Arg Lys Met Thr Leu Asp Arg Ser Glu Tyr Thr
 420 425 430

Ser Leu Ile Pro Asn Leu Arg Asn Val Val Ala Leu Asp Thr Glu Val
 435 440 445
 Ala Ser Asn Arg Ile Tyr Trp Ser Asp Leu Ser Gln Arg Met Ile Cys
 450 455 460
 Ser Thr Gln Leu Asp Arg Ala His Gly Val Ser Ser Tyr Asp Thr Val
 465 470 475 480
 Ile Ser Arg Asp Ile Gln Ala Pro Asp Gly Leu Ala Val Asp Trp Ile
 485 490 495
 His Ser Asn Ile Tyr Trp Thr Asp Ser Val Leu Gly Thr Val Ser Val
 500 505 510
 Ala Asp Thr Lys Gly Val Lys Arg Lys Thr Leu Phe Arg Glu Asn Gly
 515 520 525
 Ser Lys Pro Arg Ala Ile Val Val Asp Pro Val His Gly Phe Met Tyr
 530 535 540
 Trp Thr Asp Trp Gly Thr Pro Ala Lys Ile Lys Lys Gly Gly Leu Asn
 545 550 555 560
 Gly Val Asp Ile Tyr Ser Leu Val Thr Glu Asn Ile Gln Trp Pro Asn
 565 570 575
 Gly Ile Thr Leu Asp Leu Leu Ser Gly Arg Leu Tyr Trp Val Asp Ser
 580 585 590
 Lys Leu His Ser Ile Ser Ser Ile Asp Val Asn Gly Gly Asn Arg Lys
 595 600 605
 Thr Ile Leu Glu Asp Glu Lys Arg Leu Ala His Pro Phe Ser Leu Ala
 610 615 620
 Val Phe Glu Asp Lys Val Phe Trp Thr Asp Ile Ile Asn Glu Ala Ile
 625 630 635 640
 Phe Ser Ala Asn Arg Leu Thr Gly Ser Asp Val Asn Leu Leu Ala Glu
 645 650 655
 Asn Leu Leu Ser Pro Glu Asp Met Val Leu Phe His Asn Leu Thr Gln
 660 665 670
 Pro Arg Gly Val Asn Trp Cys Glu Arg Thr Thr Leu Ser Asn Gly Gly
 675 680 685
 Cys Gln Tyr Leu Cys Leu Pro Ala Pro Gln Ile Asn Pro His Ser Pro
 690 695 700
 Lys Phe Thr Cys Ala Cys Pro Asp Gly Met Leu Leu Ala Arg Asp Met
 705 710 715 720
 Arg Ser Cys Leu Thr Glu Gly Glu Ala Ala Val Ala Thr Gln Glu Thr
 725 730 735
 Ser Thr Val Arg Leu Lys Val Ser Ser Thr Ala Val Arg Thr Gln His
 740 745 750
 Thr Thr Thr Arg Pro Val Pro Asp Thr Ser Arg Leu Pro Gly Ala Thr
 755 760 765
 Pro Gly Leu Thr Thr Val Glu Ile Val Thr Met Ser His Gln Ala Leu
 770 775 780
 Gly Asp Val Ala Gly Arg Gly Asn Glu Lys Lys Pro Ser Ser Val Arg
 785 790 795 800
 Ala Leu Ser Ile Val Leu Pro Ile Val Leu Leu Val Phe Leu Cys Leu
 805 810 815
 Gly Val Phe Leu Leu Trp Lys Asn Trp Arg Leu Lys Asn Ile Asn Ser
 820 825 830
 Ile Asn Phe Asp Asn Pro Val Tyr Gln Lys Thr Thr Glu Asp Glu Val
 835 840 845
 His Ile Cys His Asn Gln Asp Gly Tyr Ser Tyr Pro Ser Arg Gln Met
 850 855 860
 Val Ser Leu Glu Asp Asp Val Ala
 865 870 872

<210> 2170

<211> 1378

<212> PRT

<213> Homo sapiens

<400> 2170
 Glu Arg Gly Ile Ser Ser Gln Ile Lys Gly Met Lys Ser Gly Ser Gly
 1 5 10 15
 Gly Gly Ser Pro Thr Ser Leu Trp Gly Leu Leu Phe Leu Ser Ala Ala
 20 25 30
 Leu Ser Leu Trp Pro Thr Ser Gly Glu Ile Cys Gly Pro Gly Ile Asp
 35 40 45
 Ile Arg Asn Asp Tyr Gln Gln Leu Lys Arg Leu Glu Asn Cys Thr Val
 50 55 60
 Ile Glu Gly Tyr Leu His Ile Leu Leu Ile Ser Lys Ala Glu Asp Tyr
 65 70 75 80
 Arg Ser Tyr Arg Phe Pro Lys Leu Thr Val Ile Thr Glu Tyr Leu Leu
 85 90 95
 Leu Phe Arg Val Ala Gly Leu Glu Ser Leu Gly Asp Leu Phe Pro Asn
 100 105 110
 Leu Thr Val Ile Arg Gly Trp Lys Leu Phe Tyr Asn Tyr Ala Leu Val
 115 120 125
 Ile Phe Glu Met Thr Asn Leu Lys Asp Ile Gly Leu Tyr Asn Leu Arg
 130 135 140
 Asn Ile Thr Arg Gly Ala Ile Arg Ile Glu Lys Asn Ala Asp Leu Cys
 145 150 155 160
 Tyr Leu Ser Thr Val Asp Trp Ser Leu Ile Leu Asp Ala Val Ser Asn
 165 170 175
 Asn Tyr Ile Val Gly Asn Lys Pro Pro Lys Glu Cys Gly Asp Leu Cys
 180 185 190
 Pro Gly Thr Met Glu Glu Lys Pro Met Cys Glu Lys Thr Thr Ile Asn
 195 200 205
 Asn Glu Tyr Asn Tyr Arg Cys Trp Thr Thr Asn Arg Cys Gln Lys Met
 210 215 220
 Cys Pro Ser Thr Cys Gly Lys Arg Ala Cys Thr Glu Asn Asn Glu Cys
 225 230 235 240
 Cys His Pro Glu Cys Leu Gly Ser Cys Ser Ala Pro Asp Asn Asp Thr
 245 250 255
 Ala Cys Val Ala Cys Arg His Tyr Tyr Ala Gly Val Cys Val Pro
 260 265 270
 Ala Cys Pro Pro Asn Thr Tyr Arg Phe Glu Gly Trp Arg Cys Val Asp
 275 280 285
 Arg Asp Phe Cys Ala Asn Ile Leu Ser Ala Glu Ser Ser Asp Ser Glu
 290 295 300
 Gly Phe Val Ile His Asp Gly Glu Cys Met Gln Glu Cys Pro Ser Gly
 305 310 315 320
 Phe Ile Arg Asn Gly Ser Gln Ser Met Tyr Cys Ile Pro Cys Glu Gly
 325 330 335
 Pro Cys Pro Lys Val Cys Glu Glu Glu Lys Lys Thr Lys Thr Ile Asp
 340 345 350
 Ser Val Thr Ser Ala Gln Met Leu Gln Gly Cys Thr Ile Phe Lys Gly
 355 360 365
 Asn Leu Leu Ile Asn Ile Arg Arg Gly Asn Asn Ile Ala Ser Glu Leu
 370 375 380
 Glu Asn Phe Met Gly Leu Ile Glu Val Val Thr Gly Tyr Val Lys Ile
 385 390 395 400
 Arg His Ser His Ala Leu Val Ser Leu Ser Phe Leu Lys Asn Leu Arg
 405 410 415
 Leu Ile Leu Gly Glu Glu Gln Leu Glu Gly Asn Tyr Ser Phe Tyr Val
 420 425 430
 Leu Asp Asn Gln Asn Leu Gln Gln Leu Trp Asp Trp Asp His Arg Asn
 435 440 445
 Leu Thr Ile Lys Ala Gly Lys Met Tyr Phe Ala Phe Asn Pro Lys Leu
 450 455 460
 Cys Val Ser Glu Ile Tyr Arg Met Glu Glu Val Thr Gly Thr Lys Gly
 465 470 475 480
 Arg Gln Ser Lys Gly Asp Ile Asn Thr Arg Asn Asn Gly Glu Arg Ala
 485 490 495

Ser Cys Glu Ser Asp Val Leu His Phe Thr Ser Thr Thr Thr Ser Lys
 500 505 510
 Asn Arg Ile Ile Ile Thr Trp His Arg Tyr Arg Pro Pro Asp Tyr Arg
 515 520 525
 Asp Leu Ile Ser Phe Thr Val Tyr Tyr Lys Glu Ala Pro Phe Lys Asn
 530 535 540
 Val Thr Glu Tyr Asp Gly Gln Asp Ala Cys Gly Ser Asn Ser Trp Asn
 545 550 555 560
 Met Val Asp Val Asp Leu Pro Pro Asn Lys Asp Val Glu Pro Gly Ile
 565 570 575
 Leu Leu His Gly Leu Lys Pro Trp Thr Gln Tyr Ala Val Tyr Val Lys
 580 585 590
 Ala Val Thr Leu Thr Met Val Glu Asn Asp His Ile Arg Gly Ala Lys
 595 600 605
 Ser Glu Ile Leu Tyr Ile Arg Thr Asn Ala Ser Val Pro Ser Ile Pro
 610 615 620
 Leu Asp Val Leu Ser Ala Ser Asn Ser Ser Ser Gln Leu Ile Val Lys
 625 630 635 640
 Trp Asn Pro Pro Ser Leu Pro Asn Gly Asn Leu Ser Tyr Tyr Ile Val
 645 650 655
 Arg Trp Gln Arg Gln Pro Gln Asp Gly Tyr Leu Tyr Arg His Asn Tyr
 660 665 670
 Cys Ser Lys Asp Lys Ile Pro Ile Arg Lys Tyr Ala Asp Gly Thr Ile
 675 680 685
 Asp Ile Glu Glu Val Thr Glu Asn Pro Lys Thr Glu Val Cys Gly Gly
 690 695 700
 Glu Lys Gly Pro Cys Cys Ala Cys Pro Lys Thr Glu Ala Glu Lys Gln
 705 710 715 720
 Ala Glu Lys Glu Glu Ala Glu Tyr Arg Lys Val Phe Glu Asn Phe Leu
 725 730 735
 His Asn Ser Ile Phe Val Pro Arg Pro Glu Arg Lys Arg Arg Asp Val
 740 745 750
 Met Gln Val Ala Asn Thr Thr Met Ser Ser Arg Ser Arg Asn Thr Thr
 755 760 765
 Ala Ala Asp Thr Tyr Asn Ile Thr Asp Pro Glu Glu Leu Glu Thr Glu
 770 775 780
 Tyr Pro Phe Phe Glu Ser Arg Val Asp Asn Lys Glu Arg Thr Val Ile
 785 790 795 800
 Ser Asn Leu Arg Pro Phe Thr Leu Tyr Arg Ile Asp Ile His Ser Cys
 805 810 815
 Asn His Glu Ala Glu Lys Leu Gly Cys Ser Ala Ser Asn Phe Val Phe
 820 825 830
 Ala Arg Thr Met Pro Ala Glu Gly Ala Asp Asp Ile Pro Gly Pro Val
 835 840 845
 Thr Trp Glu Pro Arg Pro Glu Asn Ser Ile Phe Leu Lys Trp Pro Glu
 850 855 860
 Pro Glu Asn Pro Asn Gly Leu Ile Leu Met Tyr Glu Ile Lys Tyr Gly
 865 870 875 880
 Ser Gln Val Glu Asp Gln Arg Glu Cys Val Ser Arg Gln Glu Tyr Arg
 885 890 895
 Lys Tyr Gly Gly Ala Lys Leu Asn Arg Leu Asn Pro Gly Asn Tyr Thr
 900 905 910
 Ala Arg Ile Gln Ala Thr Ser Leu Ser Gly Asn Gly Ser Trp Thr Asp
 915 920 925
 Pro Val Phe Phe Tyr Val Gln Ala Lys Arg Tyr Glu Asn Phe Ile His
 930 935 940
 Leu Ile Ile Ala Leu Pro Val Ala Val Leu Leu Ile Val Gly Gly Leu
 945 950 955 960
 Val Ile Met Leu Tyr Val Phe His Arg Lys Arg Asn Asn Ser Arg Leu
 965 970 975
 Gly Asn Gly Val Leu Tyr Ala Ser Val Asn Pro Glu Tyr Phe Ser Ala
 980 985 990
 Ala Asp Val Tyr Val Pro Asp Glu Trp Glu Val Ala Arg Glu Lys Ile
 995 1000 1005

Thr Met Ser Arg Glu Leu Gly Gln Gly Ser Phe Gly Met Val Tyr Glu
 1010 1015 1020
 Gly Val Ala Lys Gly Val Val Lys Asp Glu Pro Glu Thr Arg Val Ala
 1025 1030 1035 1040
 Ile Lys Thr Val Asn Glu Ala Ala Ser Met Arg Glu Arg Ile Glu Phe
 1045 1050 1055
 Leu Asn Glu Ala Ser Val Met Lys Glu Phe Asn Cys His His Val Val
 1060 1065 1070
 Arg Leu Leu Gly Val Val Ser Gln Gly Gln Pro Thr Leu Val Ile Met
 1075 1080 1085
 Glu Leu Met Thr Arg Gly Asp Leu Lys Ser Tyr Leu Arg Ser Leu Arg
 1090 1095 1100
 Pro Glu Met Glu Asn Asn Pro Val Leu Ala Pro Pro Ser Leu Ser Lys
 1105 1110 1115 1120
 Met Ile Gln Met Ala Gly Glu Ile Ala Asp Gly Met Ala Tyr Leu Asn
 1125 1130 1135
 Ala Asn Lys Phe Val His Arg Asp Leu Ala Ala Arg Asn Cys Met Val
 1140 1145 1150
 Ala Glu Asp Phe Thr Val Lys Ile Gly Asp Phe Gly Met Thr Arg Asp
 1155 1160 1165
 Ile Tyr Glu Thr Asp Tyr Tyr Arg Lys Gly Gly Lys Gly Leu Leu Pro
 1170 1175 1180
 Val Arg Trp Met Ser Pro Glu Ser Leu Lys Asp Gly Val Phe Thr Thr
 1185 1190 1195 1200
 Tyr Ser Asp Val Trp Ser Phe Gly Val Val Leu Trp Glu Ile Ala Thr
 1205 1210 1215
 Leu Ala Glu Gln Pro Tyr Gln Gly Leu Ser Asn Glu Gln Val Leu Arg
 1220 1225 1230
 Phe Val Met Glu Gly Gly Leu Leu Asp Lys Pro Asp Asn Cys Pro Asp
 1235 1240 1245
 Met Leu Phe Glu Leu Met Arg Met Cys Trp Gln Tyr Asn Pro Lys Met
 1250 1255 1260
 Arg Pro Ser Phe Leu Glu Ile Ile Ser Ser Ile Lys Glu Glu Met Glu
 1265 1270 1275 1280
 Pro Gly Phe Arg Glu Val Ser Phe Tyr Tyr Ser Glu Glu Asn Lys Leu
 1285 1290 1295
 Pro Glu Pro Glu Glu Leu Asp Leu Glu Pro Glu Asn Met Glu Ser Val
 1300 1305 1310
 Pro Leu Asp Pro Ser Ala Ser Ser Ser Leu Pro Leu Pro Asp Arg
 1315 1320 1325
 His Ser Gly His Lys Ala Glu Asn Gly Pro Gly Pro Gly Val Leu Val
 1330 1335 1340
 Leu Arg Ala Ser Phe Asp Glu Arg Gln Pro Tyr Ala His Met Asn Gly
 1345 1350 1355 1360
 Gly Arg Lys Asn Glu Arg Ala Leu Pro Leu Pro Gln Ser Ser Thr Cys
 1365 1370 1375 1376

<210> 2171
 <211> 240
 <212> PRT
 <213> Homo sapiens

<400> 2171
 Gly Arg Val Leu Phe Arg Gly Cys Gly Val Gly His Lys Gly Gln Val
 1 5 10 15
 Leu Met Gly Thr Phe Ile Leu Ala Gln Asp Trp Leu Ser Glu Ser Asn
 20 25 30
 His Val Phe Cys Val Ser Ser Met Leu Arg Leu Gln Lys Arg Leu Ala
 35 40 45

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Ser Ser Val Leu Arg Cys Gly Lys Lys Lys Val Trp Leu Asp Pro Asn
 50          55          60
Glu Thr Asn Glu Ile Ala Asn Ala Asn Ser Arg Gln Gln Ile Arg Lys
 65          70          75          80
Leu Ile Lys Asp Gly Leu Ile Ile Arg Lys Pro Val Thr Val His Ser
          85          90          95
Arg Ala Arg Cys Arg Lys Asn Thr Leu Ala Arg Arg Lys Gly Arg His
 100          105          110
Met Gly Ile Gly Lys Arg Lys Gly Thr Ala Asn Ala Arg Met Pro Glu
 115          120          125
Lys Val Thr Trp Met Arg Arg Met Arg Ile Leu Arg Arg Leu Leu Arg
 130          135          140
Arg Tyr Arg Glu Ser Lys Arg Tyr Arg Glu Ser Lys Lys Ile Asp Arg
 145          150          155          160
His Met Tyr His Ser Leu Tyr Leu Lys Val Lys Gly Asn Val Phe Lys
          165          170          175
Asn Lys Arg Ile Leu Met Glu His Ile His Lys Leu Lys Ala Asp Lys
 180          185          190
Ala Arg Lys Lys Leu Leu Ala Asp Gln Ala Glu Ala Arg Arg Ser Lys
 195          200          205
Thr Lys Glu Ala Arg Lys Arg Arg Glu Glu Arg Leu Gln Ala Lys Lys
 210          215          220
Glu Glu Ile Ile Lys Thr Leu Ser Lys Glu Glu Glu Thr Lys Lys
 225          230          235          239

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<210> 2172
<211> 262
<212> PRT
<213> Homo sapiens

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<400> 2172
Asp Phe Arg Pro Gly Leu Leu Leu Pro Arg Lys Lys Lys Met Phe Gly
 1          5          10          15
Phe His Lys Pro Lys Met Tyr Arg Ser Ile Glu Gly Cys Cys Ile Ser
          20          25          30
Gly Ala Lys Ser Ser Ser Ser Arg Phe Thr Asp Ser Lys Arg Tyr Glu
          35          40          45
Lys Asp Phe Gln Ser Cys Phe Gly Leu His Glu Thr Arg Ser Gly Asp
 50          55          60
Ile Cys Asn Ala Cys Val Leu Leu Leu Lys Arg Trp Lys Lys Leu Pro
 65          70          75          80
Ala Gly Ser Lys Lys Asn Trp Asn His Val Val Asp Ala Arg Ala Gly
          85          90          95
Pro Ser Leu Lys Thr Thr Leu Lys Pro Lys Lys Val Lys Thr Leu Ser
 100          105          110
Gly Asn Arg Ile Lys Ser Thr Gln Ile Ser Lys Leu Gln Lys Glu Phe
 115          120          125
Lys Arg His Asn Ser Asp Ala His Ser Thr Thr Ser Ala Ser Pro
 130          135          140
Ala Gln Ser Pro Leu Phe Thr Val Asn Gln Phe Arg Trp Thr Gly Ser
 145          150          155          160
Asp Thr Gly Val Gly Phe Pro Gly Ser Asn Arg Asn His Pro Val Phe
          165          170          175
Ser Phe Leu Asp Leu Thr Tyr Trp Lys Arg Gln Lys Ile Cys Cys Gly
 180          185          190
Ile Ile Tyr Lys Gly Arg Phe Gly Glu Val Leu Ile Asp Thr His Leu
 195          200          205
Phe Lys Pro Cys Cys Ser Asn Lys Lys Ala Ala Ala Glu Lys Pro Glu
 210          215          220
Glu Gln Gly Pro Glu Pro Leu Pro Ile Ser Thr Gln Glu Trp Val Thr
 225          230          235          240

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Glu Val Phe Met
244

<210> 2173
<211> 1354
<212> PRT
<213> Homo sapiens

<400> 2173
Pro Tyr Leu Ala Thr Leu Gln Leu Asp Ser Ser Leu Leu Ile Pro Pro
1 5 10 15
Lys Tyr Gln Thr Pro Pro Ala Ala Ala Gln Gly Gln Ala Thr Pro Gly
20 25 30
Asn Ala Gly Pro Leu Ala Pro Asn Gly Ser Ala Ala Pro Pro Ala Gly
35 40 45
Ser Ala Phe Asn Pro Thr Ser Asn Ser Ser Ser Thr Asn Pro Ala Ala
50 55 60
Ser Ser Ser Ala Ser Gly Ser Ser Val Pro Pro Val Ser Ser Ser Ala
65 70 75 80
Ser Ala Pro Gly Ile Ser Gln Ile Ser Thr Thr Ser Ser Ser Gly Phe
85 90 95
Ser Gly Ser Val Gly Gly Gln Asn Pro Ser Thr Gly Gly Ile Ser Ala
100 105 110
Asp Arg Thr Gln Gly Asn Ile Gly Cys Gly Gly Asp Thr Asp Pro Gly
115 120 125
Gln Ser Ser Ser Gln Pro Ser Gln Asp Gly Gln Glu Ser Asn Val Pro
130 135 140
Ser Val Gly Ser Leu Ala Asp Pro Asp Tyr Leu Asn Thr Pro Gln Met
145 150 155 160
Asn Thr Pro Val Thr Leu Asn Ser Ala Ala Pro Ala Ser Asn Ser Gly
165 170 175
Ala Gly Val Leu Pro Ser Pro Ala Thr Pro Arg Phe Ser Val Pro Thr
180 185 190
Pro Arg Thr Pro Arg Thr Pro Arg Thr Pro Arg Gly Gly Gly Thr Ala
195 200 205
Ser Gly Gln Gly Ser Val Lys Tyr Asp Ser Thr Asp Gln Gly Ser Pro
210 215 220
Ala Ser Thr Pro Ser Thr Thr Arg Pro Leu Asn Ser Val Glu Pro Ala
225 230 235 240
Thr Met Gln Pro Ile Pro Glu Ala His Ser Leu Tyr Val Thr Leu Ile
245 250 255
Leu Ser Asp Ser Val Met Asn Ile Phe Lys Asp Arg Asn Phe Asp Ser
260 265 270
Cys Cys Ile Cys Ala Cys Asn Met Asn Ile Lys Gly Ala Asp Val Gly
275 280 285
Leu Tyr Ile Pro Asp Ser Ser Asn Glu Asp Gln Tyr Arg Cys Thr Cys
290 295 300
Gly Phe Ser Ala Ile Met Asn Arg Lys Leu Gly Tyr Asn Ser Gly Leu
305 310 315 320
Phe Leu Glu Asp Glu Leu Asp Ile Phe Gly Lys Asn Ser Asp Ile Gly
325 330 335
Gln Ala Ala Glu Arg Arg Leu Met Met Cys Gln Ser Thr Phe Leu Pro
340 345 350
Gln Val Glu Gly Thr Lys Lys Pro Gln Glu Pro Pro Ile Ser Leu Leu
355 360 365
Leu Leu Leu Gln Asn Gln His Thr Gln Pro Phe Ala Ser Leu Asn Phe
370 375 380
Leu Asp Tyr Ile Ser Ser Asn Asn Arg Gln Thr Leu Pro Cys Val Ser
385 390 395 400
Trp Ser Tyr Asp Arg Val Gln Ala Asp Asn Asn Asp Tyr Trp Thr Glu
405 410 415

Cys Phe Asn Ala Leu Glu Gln Gly Arg Gln Tyr Val Asp Asn Pro Thr
 420 425 430
 Gly Gly Lys Val Asp Glu Ala Leu Val Arg Ser Ala Thr Val His Ser
 435 440 445
 Trp Pro His Ser Asn Val Leu Asp Ile Ser Met Leu Ser Ser Gln Asp
 450 455 460
 Val Val Arg Met Leu Leu Ser Leu Gln Pro Phe Leu Gln Asp Ala Ile
 465 470 475 480
 Gln Lys Lys Arg Thr Gly Arg Thr Trp Glu Asn Ile Gln His Val Gln
 485 490 495
 Gly Pro Leu Thr Trp Gln Gln Phe His Lys Met Ala Gly Arg Gly Thr
 500 505 510
 Tyr Gly Ser Glu Glu Ser Pro Glu Pro Leu Pro Ile Pro Thr Leu Leu
 515 520 525
 Val Gly Tyr Asp Lys Asp Phe Leu Thr Ile Ser Pro Phe Ser Leu Pro
 530 535 540
 Phe Trp Glu Arg Leu Leu Asp Pro Tyr Gly Gly His Arg Asp Val
 545 550 555 560
 Ala Tyr Ile Val Val Cys Pro Glu Asn Glu Ala Leu Leu Glu Gly Ala
 565 570 575
 Lys Thr Phe Phe Arg Asp Leu Ser Ala Val Tyr Glu Met Cys Arg Leu
 580 585 590
 Gly Gln His Lys Pro Ile Cys Lys Val Leu Arg Asp Gly Ile Met Arg
 595 600 605
 Val Gly Lys Thr Val Ala Gln Lys Leu Thr Asp Glu Leu Val Ser Glu
 610 615 620
 Trp Phe Asn Gln Pro Trp Ser Gly Glu Glu Asn Asp Asn His Ser Arg
 625 630 635 640
 Leu Lys Leu Tyr Ala Gln Val Cys Arg His His Leu Ala Pro Tyr Leu
 645 650 655
 Ala Thr Leu Gln Leu Asp Ser Ser Leu Leu Ile Pro Pro Lys Tyr Gln
 660 665 670
 Thr Pro Pro Ala Ala Ala Gln Gly Gln Ala Thr Pro Gly Asn Ala Gly
 675 680 685
 Pro Leu Ala Pro Asn Gly Ser Ala Ala Pro Pro Ala Gly Ser Ala Phe
 690 695 700
 Asn Pro Thr Ser Asn Ser Ser Ser Thr Asn Pro Ala Ala Ser Ser Ser
 705 710 715 720
 Ala Ser Gly Ser Ser Val Pro Pro Val Ser Ser Ser Ala Ser Ala Pro
 725 730 735
 Gly Ile Ser Gln Ile Ser Thr Thr Ser Ser Ser Gly Phe Ser Gly Ser
 740 745 750
 Val Gly Gly Gln Asn Pro Ser Thr Gly Gly Ile Ser Ala Asp Arg Thr
 755 760 765
 Gln Gly Asn Ile Gly Cys Gly Gly Asp Thr Asp Pro Gly Gln Ser Ser
 770 775 780
 Ser Gln Pro Ser Gln Asp Gly Gln Glu Ser Val Thr Glu Arg Glu Arg
 785 790 795 800
 Ile Gly Ile Pro Thr Glu Pro Asp Ser Ala Asp Ser His Ala His Pro
 805 810 815
 Pro Ala Val Val Ile Tyr Met Val Asp Pro Phe Thr Tyr Ala Ala Glu
 820 825 830
 Glu Asp Ser Thr Ser Gly Asn Phe Trp Leu Leu Ser Leu Met Arg Cys
 835 840 845
 Tyr Thr Glu Met Leu Asp Asn Leu Pro Glu His Met Arg Asn Ser Phe
 850 855 860
 Ile Leu Gln Ile Val Pro Cys Gln Tyr Met Leu Gln Thr Met Lys Asp
 865 870 875 880
 Glu Gln Val Phe Tyr Ile Gln Tyr Leu Lys Ser Met Ala Phe Ser Val
 885 890 895
 Tyr Cys Gln Cys Arg Arg Pro Leu Pro Thr Gln Ile His Ile Lys Ser
 900 905 910
 Leu Thr Gly Phe Gly Pro Ala Ala Ser Ile Glu Met Thr Leu Lys Asn
 915 920 925

Pro Glu Arg Pro Ser Pro Ile Gln Leu Tyr Ser Pro Pro Phe Ile Leu
 930 935 940
 Ala Pro Ile Lys Asp Lys Gln Thr Glu Leu Gly Glu Thr Phe Gly Glu
 945 950 955 960
 Ala Ser Gln Lys Tyr Asn Val Leu Phe Val Gly Tyr Cys Leu Ser His
 965 970 975
 Asp Gln Arg Trp Leu Leu Ala Ser Cys Thr Asp Leu His Gly Glu Leu
 980 985 990
 Leu Glu Thr Cys Val Val Asn Ile Ala Leu Pro Asn Arg Ser Arg Arg
 995 1000 1005
 Ser Lys Val Ser Ala Arg Lys Ile Gly Leu Gln Lys Leu Trp Glu Trp
 1010 1015 1020
 Cys Ile Gly Ile Val Gln Met Thr Ser Leu Pro Trp Arg Val Val Ile
 1025 1030 1035 1040
 Gly Arg Leu Gly Arg Leu Gly His Gly Glu Leu Lys Asp Trp Ser Ile
 1045 1050 1055
 Leu Leu Gly Glu Cys Ser Leu Gln Thr Ile Ser Lys Lys Leu Lys Asp
 1060 1065 1070
 Val Cys Arg Met Cys Gly Ile Ser Ala Ala Asp Ser Pro Ser Ile Leu
 1075 1080 1085
 Ser Ala Cys Leu Val Ala Met Glu Pro Gln Gly Ser Phe Val Val Met
 1090 1095 1100
 Pro Asp Ala Val Thr Met Gly Ser Val Phe Gly Arg Ser Thr Ala Leu
 1105 1110 1115 1120
 Asn Met Gln Ser Ser Gln Leu Asn Thr Pro Gln Asp Ala Ser Cys Thr
 1125 1130 1135
 His Ile Leu Val Phe Pro Thr Ser Ser Thr Ile Gln Val Ala Pro Ala
 1140 1145 1150
 Asn Tyr Pro Asn Glu Asp Gly Phe Ser Pro Asn Asn Asp Asp Met Phe
 1155 1160 1165
 Val Asp Leu Pro Phe Pro Asp Asp Met Asp Asn Asp Ile Gly Ile Leu
 1170 1175 1180
 Met Thr Gly Asn Leu His Ser Ser Pro Asn Ser Ser Pro Val Pro Ser
 1185 1190 1195 1200
 Pro Gly Ser Pro Ser Gly Ile Gly Val Gly Ser His Phe Gln His Ser
 1205 1210 1215
 Arg Ser Gln Gly Glu Arg Leu Leu Ser Arg Glu Ala Pro Glu Glu Leu
 1220 1225 1230
 Lys Gln Gln Pro Leu Ala Leu Gly Tyr Phe Val Ser Thr Ala Lys Ala
 1235 1240 1245
 Glu Asn Leu Pro Gln Trp Phe Trp Ser Ser Cys Pro Gln Ala Gln Asn
 1250 1255 1260
 Gln Cys Pro Leu Phe Leu Lys Ala Ser Leu His His His Ile Ser Val
 1265 1270 1275 1280
 Ala Gln Thr Asp Glu Leu Leu Pro Ala Arg Asn Ser Gln Arg Val Pro
 1285 1290 1295
 His Pro Leu Asp Ser Lys Thr Thr Ser Asp Val Leu Arg Phe Val Leu
 1300 1305 1310
 Glu Gln Tyr Asn Ala Leu Ser Trp Leu Thr Cys Asn Pro Ala Thr Gln
 1315 1320 1325
 Asp Arg Thr Ser Cys Leu Pro Val His Phe Val Val Leu Thr Gln Leu
 1330 1335 1340
 Tyr Asn Ala Ile Met Asn Ile Leu
 1345 1350 1352

<210> 2174
 <211> 693
 <212> PRT
 <213> Homo sapiens

<400> 2174

Val 1	Glu	Glu	Gly	Leu 5	Gly	Arg	Arg	Arg	Thr 10	Pro	Pro	Gly	Gly	Arg 15	Arg
Gly	Pro	Val	Thr 20	Pro	Ala	Arg	Pro	Gly 25	Pro	Asp	Ser	Val	Arg 30	Arg	Arg
Leu	Leu	Pro 35	Pro	Ser	Ser	Ala	Ala	Ala 40	Phe	Ser	Ser	His 45	Arg	His	Asn
Leu	Leu	Cys 50	Ser	Arg	Arg	Arg	Gly	Gly 55	Gly	Gly	Gly	Gly 60	Gly	Gly	Gly
Gly 65	Gly	Gly	Thr	Ile 70	Lys	Arg	Pro	Gly	Ile	Thr 75	Gly	Pro	Thr	Ala	Ala 80
Thr	Ser	Pro	Ser	Gly 85	Glu	Pro	Gly	Asn 90	Ala	Ala	Ser	Ala	Pro	Leu	Ser
Leu	Leu	Ser 100	Pro	Phe	Pro	Gly	Gln	Thr 105	Thr	Tyr	Gln	His 110	Pro	Gly	Val
Ala	Glu	Pro 115	Ser	Ala	Tyr	Gly	Gly	Arg 120	Asp	Val	Ala	Cys 125	Ala	Ser	Leu
Val	Phe	Gly 130	Arg	Leu	Gln	His 135	Arg	Gly	Gly	Asp 140	Arg	Lys	Arg	Gly	Leu
Leu 145	Gly	Arg	Ser	Ser 150	Gly	Asp	Ala	Ala	Ser	Asp 155	Gln	Pro	Phe	Arg	Cys
Arg	Ser	Gly	Ser	Thr 165	Ala	Gly	Arg	Leu	Val 170	Lys	Gln	Met	Asp	Phe	Thr
Glu	Ala	Tyr 180	Ala	Asp	Thr	Cys	Ser	Thr 185	Val	Gly	Leu	Ala 190	Ala	Arg	Glu
Gly	Asn	Val 195	Lys	Val	Leu	Arg	Lys 200	Leu	Leu	Lys	Lys	Gly 205	Arg	Ser	Val
Asp	Val	Ala 210	Asp	Asn	Arg	Gly 215	Trp	Met	Pro	Ile	His 220	Ala	Ala	Tyr	
His 225	Asn	Ser	Val	Glu 230	Cys	Leu	Gln	Met	Leu	Ile	Asn 235	Ala	Asp	Ser	Ser
Glu	Asn	Tyr	Ile 245	Lys	Met	Lys	Thr	Phe	Glu 250	Gly	Phe	Cys	Ala	Leu	His
Leu	Ala	Ala 260	Ser	Gln	Gly	His	Trp	Lys 265	Ile	Val	Gln	Ile 270	Leu	Leu	Glu
Ala	Gly	Ala 275	Asp	Pro	Asn	Ala	Thr 280	Thr	Leu	Glu	Glu	Thr 285	Thr	Pro	Leu
Phe	Leu	Ala 290	Val	Glu	Asn	Gly	Gln 295	Ile	Asp	Val	Leu	Arg 300	Leu	Leu	Leu
Gln 305	His	Gly	Ala	Asn 310	Val	Asn	Gly	Ser	His 315	Ser	Met	Cys	Gly	Trp	Asn
Ser	Leu	His	Gln 325	Ala	Ser	Phe	Gln	Glu 330	Asn	Ala	Glu	Ile 335	Ile	Lys	Leu
Leu	Leu	Arg 340	Lys	Gly	Ala	Asn	Lys 345	Glu	Cys	Gln	Asp	Asp 350	Phe	Gly	Ile
Thr	Pro	Leu 355	Phe	Val	Ala	Ala	Gln 360	Tyr	Gly	Lys	Leu	Glu 365	Ser	Leu	Ser
Ile	Leu	Ile 370	Ser	Ser	Gly	Ala	Asn 375	Val	Asn	Cys	Gln	Ala 380	Leu	Asp	Lys
Ala 385	Thr	Pro	Leu	Phe 390	Ile	Ala	Ala	Gln	Glu	Gly	His 395	Thr	Lys	Cys	Val
Glu	Leu	Leu	Leu	Ser 405	Ser	Gly	Ala	Asp 410	Pro	Asp	Leu	Tyr	Cys	Asn	Glu
Asp	Ser	Trp	Gln 420	Leu	Pro	Ile	His	Ala 425	Ala	Ala	Gln	Met	Gly	His	Thr
Lys	Ile	Leu 435	Asp	Leu	Leu	Ile	Pro 440	Leu	Thr	Asn	Arg	Ala 445	Cys	Asp	Thr
Gly	Leu	Asn 450	Lys	Val	Ser	Pro	Val 455	Tyr	Ser	Ala	Val	Phe 460	Gly	Gly	His
Glu 465	Asp	Cys	Leu	Glu 470	Ile	Leu	Leu	Arg	Asn	Gly	Tyr	Ser	Pro	Asp	Ala
Gln	Ala	Cys	Leu	Val 485	Phe	Gly	Phe	Ser	Ser	Pro	Val	Cys	Met	Ala	Phe
Gln	Lys	Asp	Cys 500	Glu	Phe	Phe	Gly 505	Ile	Val	Asn	Ile	Leu 510	Leu	Lys	Tyr

Gly Ala Gln Ile Asn Glu Leu His Leu Ala Tyr Cys Leu Lys Tyr Glu
 515 520 525
 Lys Phe Ser Ile Phe Arg Tyr Phe Leu Arg Lys Gly Cys Ser Leu Gly
 530 535 540
 Pro Trp Asn His Ile Tyr Glu Phe Val Asn His Ala Ile Lys Ala Gln
 545 550 555 560
 Ala Lys Tyr Lys Glu Trp Leu Pro His Leu Leu Val Ala Gly Phe Asp
 565 570 575
 Pro Leu Ile Leu Leu Cys Asn Ser Trp Ile Asp Ser Val Ser Ile Asp
 580 585 590
 Thr Leu Ile Phe Thr Leu Glu Phe Thr Asn Trp Lys Thr Leu Ala Pro
 595 600 605
 Ala Val Glu Arg Met Leu Ser Ala Arg Ala Ser Asn Ala Trp Ile Leu
 610 615 620
 Gln Gln His Ile Ala Thr Val Pro Ser Leu Thr His Leu Cys Arg Leu
 625 630 635 640
 Glu Ile Arg Ser Ser Leu Lys Ser Glu Arg Leu Arg Ser Asp Ser Tyr
 645 650 655
 Ile Ser Gln Leu Pro Leu Pro Arg Ser Leu His Asn Tyr Leu Leu Tyr
 660 665 670
 Glu Asp Val Leu Arg Met Tyr Glu Val Pro Glu Leu Ala Ala Ile Gln
 675 680 685
 Asp Gly
 690

<210> 2175
 <211> 326
 <212> PRT
 <213> Homo sapiens

<400> 2175
 Arg Ile Met Gly Leu Phe Asp Arg Gly Val Gln Met Leu Leu Thr Thr
 1 5 10 15
 Val Gly Ala Phe Ala Ala Phe Ser Leu Met Thr Ile Ala Val Gly Thr
 20 25 30
 Asp Tyr Trp Leu Tyr Ser Arg Gly Val Cys Lys Thr Lys Ser Val Ser
 35 40 45
 Glu Asn Glu Thr Ser Lys Lys Asn Glu Glu Val Met Thr His Ser Gly
 50 55 60
 Leu Trp Arg Thr Cys Cys Leu Glu Gly Asn Phe Lys Gly Leu Cys Lys
 65 70 75 80
 Gln Ile Asp His Phe Pro Glu Asp Ala Asp Tyr Glu Ala Asp Thr Ala
 85 90 95
 Glu Tyr Phe Leu Arg Ala Val Arg Ala Ser Ser Ile Phe Pro Ile Leu
 100 105 110
 Ser Val Ile Leu Leu Phe Met Gly Gly Leu Cys Ile Ala Ala Ser Glu
 115 120 125
 Phe Tyr Lys Thr Arg His Asn Ile Ile Leu Ser Ala Gly Ile Phe Phe
 130 135 140
 Val Ser Ala Gly Leu Ser Asn Ile Ile Gly Ile Ile Val Tyr Ile Ser
 145 150 155 160
 Ala Asn Ala Gly Asp Pro Ser Lys Ser Asp Ser Lys Lys Asn Ser Tyr
 165 170 175
 Ser Tyr Gly Trp Ser Phe Tyr Phe Gly Ala Leu Ser Phe Ile Ile Ala
 180 185 190
 Glu Met Val Gly Val Leu Ala Val His Met Phe Ile Asp Arg His Lys
 195 200 205
 Gln Leu Arg Ala Thr Ala Arg Ala Thr Asp Tyr Leu Gln Ala Ser Ala
 210 215 220
 Ile Thr Arg Ile Pro Ser Tyr Arg Tyr Arg Tyr Gln Arg Arg Ser Arg
 225 230 235 240

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Ser Ser Ser Arg Ser Thr Glu Pro Ser His Ser Arg Asp Ala Ser Pro
      245      250      255
Val Gly Ile Lys Gly Phe Asn Thr Leu Pro Ser Thr Glu Ile Ser Met
      260      265      270
Tyr Thr Leu Ser Arg Asp Pro Leu Lys Ala Ala Thr Thr Pro Thr Ala
      275      280      285
Thr Tyr Asn Ser Asp Arg Asp Asn Ser Phe Leu Gln Val His Asn Cys
      290      295      300
Ile Gln Lys Glu Asn Lys Asp Ser Leu His Ser Asn Thr Ala Asn Arg
      305      310      315      320
Arg Thr Thr Pro Val
      325

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<210> 2176
<211> 1726
<212> PRT
<213> Homo sapiens

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<400> 2176
Ser Asp Asp Leu Arg Thr Gly Leu Phe Gln Asp Val Gln Asp Ala Glu
 1      5      10      15
Ser Leu Lys Leu Pro Gly Val Tyr Glu Val Leu Phe Tyr Asn Glu Thr
      20      25      30
Glu Asp Cys Pro Gly Met Met Leu Trp Arg Tyr Pro Glu Pro Arg Gly
      35      40      45
Leu Thr Leu Val Arg Ile Thr Pro Val Pro Phe Asn Thr Thr Glu Asp
      50      55      60
Pro Asp Ile Ser Thr Ala Asp Leu Gly Asp Val Leu Gln Asp Pro Cys
      65      70      75      80
Ser Leu Glu Tyr Trp Asp Glu Leu Gln Lys Val Phe Val Ala Phe Arg
      85      90      95
Glu Phe Asn Leu Ser Glu Ser Lys Val Cys Glu Leu Gln Leu Pro Asp
      100      105      110
Ile Asn Leu Val Asn Asp Gln Lys Lys Leu Val Ser Ser Asp Leu Trp
      115      120      125
Arg Ile Val Leu Asn Ser Ser Gln Asn Gly Ala Asp Asp Gln Ser Ser
      130      135      140
Ala Ser Glu Ser Gly Ser Gln Ser Thr Cys Asp Pro Leu Val Thr Pro
      145      150      155      160
Thr Ala Leu Ala Ala Cys Thr Arg Val Asp Ser Cys Phe Thr Pro Trp
      165      170      175
Phe Val Pro Ser Leu Cys Val Ser Phe Gln Phe Ala His Leu Glu Phe
      180      185      190
His Leu Cys His His Leu Asp Gln Leu Gly Thr Ala Ala Pro Gln Tyr
      195      200      205
Leu Gln Pro Phe Val Ser Asp Arg Asn Met Pro Ser Glu Leu Glu Tyr
      210      215      220
Met Ile Val Ser Phe Arg Glu Pro His Met Tyr Leu Arg Gln Trp Asn
      225      230      235      240
Asn Gly Ser Val Cys Gln Glu Ile Gln Phe Leu Ala Gln Ala Asp Cys
      245      250      255
Lys Leu Leu Glu Cys Arg Asn Val Thr Met Gln Ser Val Val Lys Pro
      260      265      270
Phe Ser Ile Phe Gly Gln Met Ala Val Ser Ser Asp Val Val Glu Lys
      275      280      285
Leu Leu Asp Cys Thr Val Ile Val Asp Ser Val Phe Val Asn Leu Gly
      290      295      300
Gln His Val Val His Ser Leu Asn Thr Ala Ile Gln Ala Trp Gln Gln
      305      310      315      320
Asn Lys Cys Pro Glu Val Glu Glu Leu Val Phe Ser His Phe Val Ile
      325      330      335

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Cys Asn Asp Thr Gln Glu Thr Leu Arg Phe Gly Gln Val Asp Thr Asp
 340 345 350
 Glu Asn Ile Leu Leu Ala Ser Leu His Ser His Gln Tyr Ser Trp Arg
 355 360 365
 Ser His Lys Ser Pro Gln Leu Leu His Ile Cys Ile Glu Gly Trp Gly
 370 375 380
 Asn Trp Arg Trp Ser Glu Pro Phe Ser Val Asp His Ala Gly Thr Phe
 385 390 395 400
 Ile Arg Thr Ile Gln Tyr Arg Gly Arg Thr Ala Ser Leu Ile Ile Lys
 405 410 415
 Val Gln Gln Leu Asn Gly Val Gln Lys Gln Ile Ile Ile Cys Gly Arg
 420 425 430
 Gln Ile Ile Cys Ser Tyr Leu Ser Gln Ser Ile Glu Leu Lys Val Val
 435 440 445
 Gln His Tyr Ile Gly Gln Asp Gly Gln Ala Val Val Arg Glu His Phe
 450 455 460
 Asp Cys Leu Thr Ala Lys Gln Lys Leu Pro Ser Tyr Ile Leu Glu Asn
 465 470 475 480
 Asn Glu Leu Thr Glu Leu Cys Val Lys Ala Lys Gly Asp Glu Asp Trp
 485 490 495
 Ser Arg Asp Val Cys Leu Glu Ser Lys Ala Pro Glu Tyr Ser Ile Val
 500 505 510
 Ile Gln Val Pro Ser Ser Asn Ser Ser Ile Ile Tyr Val Trp Cys Thr
 515 520 525
 Val Leu Thr Leu Glu Pro Asn Ser Gln Val Gln Gln Arg Met Ile Val
 530 535 540
 Phe Ser Pro Leu Phe Ile Met Arg Ser His Leu Pro Asp Pro Ile Ile
 545 550 555 560
 Ile His Leu Glu Lys Arg Ser Leu Gly Leu Ser Glu Thr Gln Ile Ile
 565 570 575
 Pro Gly Lys Gly Gln Glu Lys Pro Leu Gln Asn Ile Glu Pro Asp Leu
 580 585 590
 Val His His Leu Thr Phe Gln Ala Arg Glu Glu Tyr Asp Pro Ser Asp
 595 600 605
 Cys Ala Val Pro Ile Ser Thr Ser Leu Ile Lys Gln Ile Ala Thr Lys
 610 615 620
 Val His Pro Gly Gly Thr Val Asn Gln Ile Leu Asp Glu Phe Tyr Gly
 625 630 635 640
 Pro Glu Lys Ser Leu Gln Pro Ile Trp Pro Tyr Asn Lys Lys Asp Ser
 645 650 655
 Asp Arg Asn Glu Gln Leu Ser Gln Trp Asp Ser Pro Met Arg Val Lys
 660 665 670
 Leu Ser Ile Trp Lys Pro Tyr Val Arg Thr Leu Leu Ile Glu Leu Leu
 675 680 685
 Pro Trp Ala Leu Leu Ile Asn Glu Ser Lys Trp Asp Leu Trp Leu Phe
 690 695 700
 Glu Gly Glu Lys Ile Val Leu Gln Val Pro Ala Gly Lys Ile Ile Ile
 705 710 715 720
 Pro Pro Asn Phe Gln Glu Ala Phe Gln Ile Gly Ile Tyr Trp Ala Asn
 725 730 735
 Thr Asn Thr Val His Lys Ser Val Ala Ile Lys Leu Val His Asn Leu
 740 745 750
 Thr Ser Pro Lys Trp Lys Asp Gly Gly Asn Gly Glu Val Val Thr Leu
 755 760 765
 Asp Glu Glu Ala Phe Val Asp Thr Glu Ile Arg Leu Gly Ala Phe Pro
 770 775 780
 Gly His Gln Lys Leu Cys Gln Phe Cys Ile Ser Ser Met Val Gln Gln
 785 790 795 800
 Gly Ile Gln Ile Ile Gln Ile Glu Asp Lys Thr Thr Ile Ile Asn Asn
 805 810 815
 Thr Pro Tyr Gln Ile Phe Tyr Lys Pro Gln Leu Ser Val Cys Asn Pro
 820 825 830
 His Ser Gly Lys Glu Tyr Phe Arg Val Pro Asp Ser Ala Thr Phe Ser
 835 840 845

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Ile Cys Pro Gly Gly Glu Gln Pro Ala Met Lys Ser Ser Ser Leu Pro
850                               855                               860
Cys Trp Asp Leu Met Pro Asp Ile Ser Gln Ser Val Leu Asp Ala Ser
865                               870                               875                               880
Leu Leu Gln Lys Gln Ile Met Leu Gly Phe Ser Pro Ala Pro Gly Ala
885                               890                               895
Asp Ser Ser Gln Cys Trp Ser Leu Pro Ala Ile Val Arg Pro Glu Phe
900                               905                               910
Pro Arg Gln Ser Val Ala Val Pro Leu Gly Asn Phe Arg Glu Asn Gly
915                               920                               925
Phe Cys Thr Arg Ala Ile Val Leu Thr Tyr Gln Glu His Leu Gly Val
930                               935                               940
Thr Tyr Leu Thr Leu Ser Glu Asp Pro Ser Pro Arg Val Ile Ile His
945                               950                               955                               960
Asn Arg Cys Pro Val Lys Met Leu Ile Lys Glu Asn Ile Lys Asp Ile
965                               970                               975
Pro Lys Phe Glu Val Tyr Cys Lys Lys Ile Pro Ser Glu Cys Ser Ile
980                               985                               990
His His Glu Leu Tyr His Gln Ile Ser Ser Tyr Pro Asp Cys Lys Thr
995                               1000                               1005
Lys Asp Leu Leu Pro Ser Leu Leu Leu Arg Val Glu Pro Leu Asp Glu
1010                               1015                               1020
Val Thr Thr Glu Trp Ser Asp Ala Ile Asp Ile Asn Ser Gln Gly Thr
1025                               1030                               1035                               1040
Gln Val Val Phe Leu Thr Gly Phe Gly Tyr Val Tyr Val Asp Val Val
1045                               1050                               1055
His Gln Cys Gly Thr Val Phe Ile Thr Val Ala Pro Glu Gly Lys Ala
1060                               1065                               1070
Gly Pro Ile Leu Thr Asn Thr Asn Arg Ala Pro Glu Lys Ile Val Thr
1075                               1080                               1085
Phe Lys Met Phe Ile Thr Gln Leu Ser Leu Ala Val Phe Asp Asp Leu
1090                               1095                               1100
Thr His His Lys Ala Ser Ala Glu Leu Leu Arg Leu Thr Leu Asp Asn
1105                               1110                               1115                               1120
Ile Phe Leu Cys Val Ala Pro Gly Ala Gly Pro Leu Pro Gly Glu Glu
1125                               1130                               1135
Pro Val Ala Ala Leu Phe Glu Leu Tyr Cys Val Glu Ile Cys Cys Gly
1140                               1145                               1150
Asp Leu Gln Leu Asp Asn Gln Leu Tyr Asn Lys Ser Asn Phe His Phe
1155                               1160                               1165
Ala Val Leu Val Cys Gln Gly Glu Lys Ala Glu Pro Ile Gln Cys Ser
1170                               1175                               1180
Lys Met Gln Ser Leu Leu Ile Ser Asn Lys Glu Leu Glu Glu Tyr Lys
1185                               1190                               1195                               1200
Glu Lys Cys Phe Ile Lys Leu Cys Ile Thr Leu Asn Glu Gly Lys Ser
1205                               1210                               1215
Ile Leu Cys Asp Ile Asn Glu Phe Ser Phe Glu Leu Lys Pro Ala Arg
1220                               1225                               1230
Leu Tyr Val Glu Asp Thr Phe Val Tyr Tyr Ile Lys Thr Leu Phe Asp
1235                               1240                               1245
Thr Tyr Leu Pro Asn Ser Arg Leu Ala Gly His Ser Thr His Leu Ser
1250                               1255                               1260
Gly Gly Lys Gln Val Leu Pro Met Gln Val Thr Gln His Ala Arg Ala
1265                               1270                               1275                               1280
Leu Val Asn Pro Val Lys Leu Arg Lys Leu Val Ile Gln Pro Val Asn
1285                               1290                               1295
Leu Leu Val Ser Ile His Ala Ser Leu Lys Leu Tyr Ile Ala Ser Asp
1300                               1305                               1310
His Thr Pro Leu Ser Phe Ser Val Phe Glu Arg Gly Pro Ile Phe Thr
1315                               1320                               1325
Thr Ala Arg Gln Leu Val His Ala Leu Ala Met His Tyr Ala Ala Gly
1330                               1335                               1340
Ala Leu Phe Arg Ala Gly Trp Val Val Gly Ser Leu Asp Ile Leu Gly
1345                               1350                               1355                               1360

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Ser Pro Ala Ser Leu Val Arg Ser Ile Gly Asn Gly Val Ala Asp Phe
 1365 1370 1375
 Phe Arg Leu Pro Tyr Glu Gly Leu Thr Arg Gly Pro Gly Ala Phe Val
 1380 1385 1390
 Ser Gly Val Ser Arg Gly Thr Thr Ser Phe Val Lys His Ile Ser Lys
 1395 1400 1405
 Gly Thr Leu Thr Ser Ile Thr Asn Leu Ala Thr Ser Leu Ala Arg Asn
 1410 1415 1420
 Met Asp Arg Leu Ser Leu Asp Glu Glu His Tyr Asn Arg Gln Glu Glu
 1425 1430 1435 1440
 Trp Arg Arg Gln Leu Pro Glu Ser Leu Gly Glu Gly Leu Arg Gln Gly
 1445 1450 1455
 Leu Ser Arg Leu Gly Ile Ser Leu Leu Gly Ala Ile Ala Gly Ile Val
 1460 1465 1470
 Asp Gln Pro Met Gln Asn Phe Gln Lys Thr Ser Glu Ala Gln Ala Ser
 1475 1480 1485
 Ala Gly His Lys Ala Lys Gly Val Ile Ser Gly Val Gly Lys Gly Ile
 1490 1495 1500
 Met Gly Val Phe Thr Lys Pro Ile Gly Gly Ala Ala Glu Leu Val Ser
 1505 1510 1515 1520
 Gln Thr Gly Tyr Gly Ile Leu His Gly Ala Gly Leu Ser Gln Leu Pro
 1525 1530 1535
 Lys Gln Arg His Gln Pro Ser Asp Val His Ala Asp Gln Ala Pro Asn
 1540 1545 1550
 Ser His Val Lys Tyr Val Trp Lys Met Leu Gln Ser Leu Gly Arg Pro
 1555 1560 1565
 Glu Val His Met Ala Leu Asp Val Val Leu Val Arg Gly Ser Gly Gln
 1570 1575 1580
 Glu His Glu Gly Cys Leu Leu Leu Thr Ser Glu Val Leu Phe Val Val
 1585 1590 1595 1600
 Ser Val Ser Glu Asp Thr Gln Gln Gln Ala Phe Pro Val Thr Glu Ile
 1605 1610 1615
 Asp Cys Ala Gln Asp Ser Lys Gln Asn Asn Leu Leu Thr Val Gln Leu
 1620 1625 1630
 Lys Gln Pro Arg Val Ala Cys Asp Val Glu Val Asp Gly Val Arg Glu
 1635 1640 1645
 Arg Leu Ser Glu Gln Gln Tyr Asn Arg Leu Val Asp Tyr Ile Thr Lys
 1650 1655 1660
 Thr Ser Cys His Leu Ala Pro Ser Cys Ser Ser Met Gln Ile Pro Cys
 1665 1670 1675 1680
 Pro Val Val Ala Ala Glu Pro Pro Pro Ser Thr Val Lys Thr Tyr His
 1685 1690 1695
 Tyr Leu Val Asp Pro His Phe Ala Gln Val Phe Leu Ser Lys Phe Thr
 1700 1705 1710
 Met Val Lys Asn Lys Ala Leu Arg Lys Gly Phe Pro
 1715 1720 1724

<210> 2177
 <211> 555
 <212> PRT
 <213> Homo sapiens

<400> 2177
 Phe Val Gly Ala Pro Arg Arg Gly Asn Pro Phe Gly Ser Pro Gly Asn
 1 5 10 15
 Pro Gly Arg His Gln Gly Pro Cys His Arg Pro Arg Gly Thr Lys Ala
 20 25 30
 Ser Gly Val Ser Pro Thr Leu Trp Arg Pro Gln Ala Ala Thr Gly
 35 40 45
 Leu Glu Met Pro Ser Ser Gly Arg Ala Leu Leu Asp Ser Pro Leu Asp
 50 55 60

Ser Gly Ser Leu Thr Ser Leu Asp Ser Ser Val Phe Cys Ser Glu Gly
 65 70 75 80
 Glu Gly Glu Pro Leu Ala Leu Gly Asp Cys Phe Thr Val Asn Val Gly
 85 90 95
 Gly Ser Arg Phe Val Leu Ser Gln Gln Ala Leu Ser Cys Phe Pro His
 100 105 110
 Thr Arg Leu Gly Lys Leu Ala Val Val Ala Ser Tyr Arg Arg Pro
 115 120 125
 Gly Ala Leu Ala Ala Val Pro Ser Pro Leu Glu Leu Cys Asp Asp Ala
 130 135 140
 Asn Pro Val Asp Asn Glu Tyr Phe Phe Asp Arg Ser Ser Gln Ala Phe
 145 150 155 160
 Arg Tyr Val Leu His Tyr Tyr Arg Thr Gly Arg Leu His Val Met Glu
 165 170 175
 Gln Leu Cys Ala Leu Ser Phe Leu Gln Glu Ile Gln Tyr Trp Gly Ile
 180 185 190
 Asp Glu Leu Ser Ile Asp Ser Cys Cys Arg Asp Arg Tyr Phe Arg Arg
 195 200 205
 Lys Glu Leu Ser Glu Thr Leu Asp Phe Lys Lys Asp Thr Glu Asp Gln
 210 215 220
 Glu Ser Gln His Glu Ser Glu Gln Asp Phe Ser Gln Gly Pro Cys Pro
 225 230 235 240
 Thr Val Arg Gln Lys Leu Trp Asn Ile Leu Glu Lys Pro Gly Ser Ser
 245 250 255
 Thr Ala Ala Arg Ile Phe Gly Val Ile Ser Ile Ile Phe Val Gly Val
 260 265 270
 Ser Ile Ile Asn Met Ala Leu Met Ser Ala Glu Leu Ser Trp Leu Asp
 275 280 285
 Leu Gln Leu Leu Glu Ile Leu Glu Tyr Val Cys Ile Ser Trp Phe Thr
 290 295 300
 Gly Glu Phe Val Leu Arg Phe Leu Cys Val Arg Asp Arg Cys Arg Phe
 305 310 315 320
 Leu Arg Lys Val Pro Asn Ile Ile Asp Leu Leu Ala Ile Leu Pro Phe
 325 330 335
 Tyr Ile Thr Leu Leu Val Glu Ser Leu Ser Gly Ser Gln Thr Thr Gln
 340 345 350
 Glu Leu Glu Asn Val Gly Ala His Cys Pro Gly Cys Leu Arg Leu Leu
 355 360 365
 Arg Ala Leu Arg Met Leu Lys Ala Trp Gly Arg His Ser Thr Gly Leu
 370 375 380
 Arg Ser Leu Gly Met Thr Ile Thr Gln Cys Tyr Glu Glu Val Gly Leu
 385 390 395 400
 Leu Leu Leu Phe Leu Ser Val Gly Ile Ser Ile Phe Ser Thr Val Glu
 405 410 415
 Tyr Phe Ala Glu Gln Ser Ile Pro Asp Thr Thr Phe Thr Ser Val Pro
 420 425 430
 Cys Ala Trp Trp Trp Ala Thr Thr Ser Met Thr Thr Val Gly Tyr Gly
 435 440 445
 Asp Ile Arg Pro Asp Thr Thr Thr Gly Lys Ile Val Ala Phe Met Cys
 450 455 460
 Ile Leu Ser Gly Ile Leu Val Leu Ala Leu Pro Ile Ala Ile Ile Asn
 465 470 475 480
 Asp Arg Phe Ser Ala Cys Tyr Phe Thr Leu Lys Leu Lys Glu Ala Ala
 485 490 495
 Val Arg Gln Arg Glu Ala Leu Lys Lys Leu Thr Lys Asn Ile Ala Thr
 500 505 510
 Asp Ser Tyr Ile Ser Val Asn Leu Arg Asp Val Tyr Ala Arg Ser Ile
 515 520 525
 Met Glu Met Leu Arg Leu Lys Gly Arg Glu Arg Ala Ser Thr Arg Ser
 530 535 540
 Ser Gly Gly Asp Asp Phe Trp Phe
 545 550 552

<210> 2178
 <211> 1441
 <212> PRT
 <213> Homo sapiens

<400> 2178
 Gly Thr His Pro Ala Ser Ser Gly Pro Val Pro Leu Pro Pro Ala Ala
 1 5 10 15
 Val Ser Ala Ala Thr Arg Glu Glu Leu Gly Glu Pro Val Pro Phe Val
 20 25 30
 Thr Ala Ser Ser Gly Phe Gln Ser Met His Ser Ser Asn Pro Lys Val
 35 40 45
 Arg Ser Ser Pro Ser Gly Asn Thr Gln Ser Ser Pro Lys Ser Lys Gln
 50 55 60
 Glu Val Met Val Arg Pro Thr Val Met Ser Pro Ser Gly Asn Pro
 65 70 75 80
 Gln Leu Asp Ser Lys Phe Ser Asn Gln Gly Lys Gln Gly Gly Ser Ala
 85 90 95
 Ser Gln Ser Gln Pro Ser Pro Cys Asp Ser Lys Ser Gly Gly His Thr
 100 105 110
 Pro Lys Ala Leu Pro Gly Pro Gly Gly Ser Met Gly Leu Lys Asn Gly
 115 120 125
 Ala Gly Asn Gly Ala Lys Gly Lys Gly Lys Arg Glu Arg Ser Ile Ser
 130 135 140
 Ala Asp Ser Phe Asp Gln Arg Asp Pro Gly Thr Pro Asn Asp Asp Ser
 145 150 155 160
 Asp Ile Lys Glu Cys Asn Ser Ala Asp His Ile Lys Ser Gln Asp Ser
 165 170 175
 Gln His Thr Pro His Ser Met Thr Pro Ser Asn Ala Thr Ala Pro Arg
 180 185 190
 Ser Ser Thr Pro Pro His Gly Gln Thr Thr Ala Thr Glu Pro Thr Pro
 195 200 205
 Ala Gln Lys Thr Pro Ala Lys Val Val Tyr Val Phe Ser Thr Glu Met
 210 215 220
 Ala Asn Lys Ala Ala Glu Ala Val Leu Lys Gly Gln Val Glu Thr Ile
 225 230 235 240
 Val Ser Phe His Ile Gln Asn Ile Ser Asn Asn Lys Thr Glu Arg Ser
 245 250 255
 Thr Ala Pro Leu Asn Thr Gln Ile Ser Ala Leu Arg Asn Asp Pro Lys
 260 265 270
 Pro Leu Pro Gln Gln Pro Pro Ala Pro Ala Asn Gln Asp Gln Asn Ser
 275 280 285
 Ser Gln Asn Thr Arg Leu Gln Pro Thr Pro Pro Ile Pro Ala Pro Ala
 290 295 300
 Pro Lys Pro Ala Ala Pro Pro Arg Pro Leu Asp Arg Glu Ser Pro Gly
 305 310 315 320
 Val Glu Asn Lys Leu Ile Pro Ser Val Gly Ser Pro Ala Ser Ser Thr
 325 330 335
 Pro Leu Pro Pro Asp Gly Thr Gly Pro Asn Ser Thr Pro Asn Asn Arg
 340 345 350
 Ala Val Thr Pro Val Ser Gln Gly Ser Asn Ser Ser Ser Ala Asp Pro
 355 360 365
 Lys Ala Pro Pro Pro Pro Pro Val Ser Ser Gly Glu Pro Pro Thr Leu
 370 375 380
 Gly Glu Asn Pro Asp Gly Leu Ser Gln Glu Gln Leu Glu His Arg Glu
 385 390 395 400
 Arg Ser Leu Gln Thr Leu Arg Asp Ile Gln Arg Met Leu Phe Pro Asp
 405 410 415
 Glu Lys Glu Phe Thr Gly Ala Gln Ser Gly Gly Pro Gln Gln Asn Pro
 420 425 430
 Gly Val Leu Asp Gly Pro Gln Lys Lys Pro Glu Gly Pro Ile Gln Ala
 435 440 445


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Met Met Ala Gln Ser Gln Ser Leu Gly Lys Gly Pro Gly Pro Arg Thr
  450          455          460
Asp Val Gly Ala Pro Phe Gly Pro Gln Gly His Arg Asp Val Pro Phe
465          470          475          480
Ser Pro Asp Glu Met Val Pro Pro Ser Met Asn Ser Gln Ser Gly Thr
          485          490          495
Ile Gly Pro Asp His Leu Asp His Met Thr Pro Glu Gln Ile Ala Trp
          500          505          510
Leu Lys Leu Gln Gln Glu Phe Tyr Glu Glu Lys Arg Arg Lys Pro Glu
          515          520          525
Gln Val Val Val Gln Gln Cys Ser Leu Gln Asp Met Met Val His Gln
530          535          540
His Gly Pro Arg Gly Val Val Arg Gly Pro Pro Pro Pro Tyr Gln Met
545          550          555          560
Thr Pro Ser Glu Gly Trp Ala Pro Gly Gly Thr Glu Pro Phe Ser Asp
          565          570          575
Gly Ile Asn Met Pro His Ser Leu Pro Pro Arg Gly Met Ala Pro His
          580          585          590
Pro Asn Met Pro Gly Ser Gln Met Arg Leu Pro Gly Phe Ala Gly Met
          595          600          605
Ile Asn Ser Glu Met Glu Gly Pro Asn Val Pro Asn Pro Ala Ser Arg
610          615          620
Pro Gly Leu Ser Gly Val Ser Trp Pro Asp Asp Val Pro Lys Ile Pro
625          630          635          640
Asp Gly Arg Asn Phe Pro Pro Gly Gln Gly Ile Phe Ser Gly Pro Gly
          645          650          655
Arg Gly Glu Arg Phe Pro Asn Pro Gln Gly Leu Ser Glu Glu Met Phe
660          665          670
Gln Gln Gln Leu Ala Glu Lys Gln Leu Gly Leu Pro Pro Gly Met Ala
675          680          685
Met Glu Gly Ile Arg Pro Ser Met Glu Met Asn Arg Met Ile Pro Gly
690          695          700
Ser Gln Arg His Met Glu Pro Gly Asn Asn Pro Ile Phe Pro Arg Ile
705          710          715          720
Pro Val Glu Gly Pro Leu Ser Pro Ser Arg Gly Asp Phe Pro Lys Gly
          725          730          735
Ile Pro Pro Gln Met Gly Pro Gly Arg Glu Leu Glu Phe Gly Met Val
740          745          750
Pro Ser Gly Met Lys Gly Asp Val Asn Leu Asn Val Asn Met Gly Ser
755          760          765
Asn Ser Gln Met Ile Pro Gln Lys Met Arg Glu Ala Gly Ala Gly Pro
770          775          780
Glu Glu Met Leu Lys Leu Arg Pro Gly Gly Ser Asp Met Leu Pro Ala
785          790          795          800
Gln Gln Lys Met Val Pro Leu Pro Phe Gly Glu His Pro Gln Gln Glu
          805          810          815
Tyr Gly Met Gly Pro Arg Pro Phe Leu Pro Met Ser Gln Gly Pro Gly
820          825          830
Ser Asn Ser Gly Leu Arg Asn Leu Arg Glu Pro Ile Gly Pro Asp Gln
835          840          845
Arg Thr Asn Ser Arg Leu Ser His Met Pro Pro Leu Pro Leu Asn Pro
850          855          860
Ser Ser Asn Pro Thr Ser Leu Asn Thr Ala Pro Pro Val Gln Arg Gly
865          870          875          880
Leu Gly Arg Lys Pro Leu Asp Ile Ser Val Ala Gly Ser Gln Val His
          885          890          895
Ser Pro Gly Ile Asn Pro Leu Lys Ser Pro Thr Met His Gln Val Gln
900          905          910
Ser Pro Met Leu Gly Ser Pro Ser Gly Asn Leu Lys Ser Pro Gln Thr
915          920          925
Pro Ser Gln Leu Ala Gly Met Leu Ala Gly Pro Ala Ala Ala Ser
930          935          940
Ile Lys Ser Pro Pro Val Leu Gly Ser Ala Ala Ser Pro Val His
945          950          955          960

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Leu Lys Ser Pro Ser Leu Pro Ala Pro Ser Pro Gly Tip Thr Ser Ser
 965 970 975
 Pro Glu Pro Pro Leu Gln Ser Pro Gly Ile Pro Pro Asn His Lys Ala
 980 985 990
 Pro Leu Thr Met Ala Ser Pro Ala Met Leu Gly Asn Val Glu Ser Gly
 995 1000 1005
 Gly Pro Pro Pro Thr Ala Ser Gln Pro Ala Ser Val Asn Ile Pro
 1010 1015 1020
 Gly Ser Leu Pro Ser Ser Thr Pro Tyr Thr Met Pro Pro Glu Pro Thr
 1025 1030 1035 1040
 Leu Ser Gln Asn Pro Leu Ser Ile Met Met Ser Arg Met Ser Lys Phe
 1045 1050 1055
 Ala Met Pro Ser Ser Asn Pro Gly Tyr Asn His Asp Ala Ile Lys Thr
 1060 1065 1070
 Val Ala Ser Ser Asp Asp Asp Ser Pro Pro Ala Arg Ser Pro Asn Leu
 1075 1080 1085
 Pro Ser Met Asn Asn Met Pro Gly Met Gly Ile Asn Thr Gln Asn Pro
 1090 1095 1100
 Arg Ile Ser Gly Pro Asn Pro Val Val Pro Met Pro Thr Leu Ser Pro
 1105 1110 1115 1120
 Met Gly Met Thr Gln Pro Leu Ser His Ser Asn Gln Met Pro Ser Pro
 1125 1130 1135
 Asn Ala Val Gly Pro Asn Ile Pro Pro His Gly Val Pro Met Gly Pro
 1140 1145 1150
 Gly Leu Met Ser His Asn Pro Ile Met Gly His Gly Ser Gln Glu Pro
 1155 1160 1165
 Pro Met Val Pro Gln Gly Arg Met Gly Phe Pro Gln Gly Phe Pro Pro
 1170 1175 1180
 Val Gln Ser Pro Pro Gln Gln Val Pro Phe Pro His Asn Gly Pro Ser
 1185 1190 1195 1200
 Gly Gly Gln Gly Ser Phe Pro Gly Gly Met Gly Phe Pro Gly Glu Gly
 1205 1210 1215
 Pro Leu Gly Arg Pro Ser Asn Leu Pro Gln Ser Ser Ala Asp Ala Ala
 1220 1225 1230
 Leu Cys Lys Pro Gly Gly Pro Gly Gly Pro Asp Ser Phe Thr Val Leu
 1235 1240 1245
 Gly Asn Ser Met Pro Ser Val Phe Thr Asp Pro Asp Leu Gln Glu Val
 1250 1255 1260
 Ile Arg Pro Gly Ala Thr Gly Ile Pro Glu Phe Asp Leu Ser Arg Ile
 1265 1270 1275 1280
 Ile Pro Ser Glu Lys Pro Ser Gln Thr Leu Gln Tyr Phe Pro Arg Gly
 1285 1290 1295
 Glu Val Pro Gly Arg Lys Gln Pro Gln Gly Pro Gly Pro Gly Phe Ser
 1300 1305 1310
 His Met Gln Gly Met Met Gly Glu Gln Ala Pro Arg Met Gly Leu Ala
 1315 1320 1325
 Leu Pro Gly Met Gly Gly Pro Gly Pro Val Gly Thr Pro Asp Ile Pro
 1330 1335 1340
 Leu Gly Thr Ala Pro Ser Met Pro Gly His Asn Pro Met Arg Pro Pro
 1345 1350 1355 1360
 Ala Phe Leu Gln Gln Gly Met Met Gly Pro His His Arg Met Met Ser
 1365 1370 1375
 Pro Ala Gln Ser Thr Met Pro Gly Gln Pro Thr Leu Met Ser Asn Pro
 1380 1385 1390
 Ala Ala Val Gly Met Ile Pro Gly Lys Asp Arg Gly Pro Ala Gly
 1395 1400 1405
 Leu Tyr Thr His Pro Gly Pro Val Gly Ser Pro Gly Met Met Met Ser
 1410 1415 1420
 Met Gln Gly Met Met Gly Pro Asn Arg Thr Ser
 1425 1430 1435

<211> 145
 <212> PRT
 <213> Homo sapiens

<400> 2179
 Ala Ser Phe Phe Asn Phe Ser Ile Cys Ile Cys Lys Ile Ile Leu Glu
 1 5 10 15
 Val Gly Pro Pro Val Gly His Pro Ala His Asp Asp Val Gly Gly Arg
 20 25 30
 His Gly Pro Gly Gly Arg Gly Ser Arg Ser Pro Arg Ser Leu Gln Cys
 35 40 45
 Ala Pro Gly Gly Gly Arg Arg Ser Gly Cys Pro Ala Gly Ser Ser Pro
 50 55 60
 Ala Ser Thr Cys Pro Pro Ser Pro Gly Gly Ser Gly Ala Asp Arg Phe
 65 70 75 80
 Gly Pro Ser Pro Pro Pro Ser Arg Glu Ala Ala Pro Thr Ala Gly
 85 90 95
 Ala Ala Ala Ser Ser Thr Ser Ser Gly Ala Ser Cys Pro Pro Val Pro
 100 105 110
 Ala Ser Ser Arg Trp Gly Val Arg Ser Arg Thr Arg Ser Gly Ser Gly
 115 120 125
 Gly Glu Arg Glu Pro Arg Asp Arg Pro Ser Glu Arg Pro Arg Leu Val
 130 135 140 144

<210> 2180
 <211> 643
 <212> PRT
 <213> Homo sapiens

<400> 2180
 Leu Pro Glu Arg Ala Phe Gly Pro Arg Thr Pro Arg Ala Pro Arg Arg
 1 5 10 15
 Arg Arg Arg Arg Leu Leu Leu Ser Pro Pro Arg Pro Pro Pro Pro
 20 25 30
 Leu Asp Arg Glu Pro Arg Ala Pro Gly Pro Trp Leu Cys Pro Ser Arg
 35 40 45
 Ala Gly Thr Ala Gln Asp Pro Ala Arg Ile Arg Glu Arg Arg Gly Arg
 50 55 60
 Val Ala Gly Gly Ala Ala Gly Pro Ala Met Glu Leu Arg Ala Arg Gly
 65 70 75 80
 Trp Trp Leu Leu Cys Ala Ala Ala Ala Leu Val Ala Cys Ala Arg Gly
 85 90 95
 Asp Pro Ala Ser Lys Ser Arg Ser Cys Gly Glu Val Arg Gln Ile Tyr
 100 105 110
 Gly Ala Lys Gly Phe Ser Ser Ser Asp Val Pro Gln Ala Glu Ile Ser
 115 120 125
 Gly Glu His Leu Arg Ile Cys Pro Gln Gly Tyr Thr Cys Cys Thr Ser
 130 135 140
 Glu Met Glu Glu Asn Leu Ala Asn Arg Ser His Ala Glu Leu Glu Thr
 145 150 155 160
 Ala Leu Arg Asp Ser Ser Arg Val Leu Gln Ala Met Leu Ala Thr Gln
 165 170 175
 Leu Arg Ser Phe Asp Asp His Phe Gln His Leu Leu Asn Asp Ser Glu
 180 185 190
 Arg Thr Leu Gln Ala Thr Phe Pro Gly Ala Phe Gly Glu Leu Tyr Thr
 195 200 205
 Gln Asn Ala Arg Ala Phe Arg Asp Leu Tyr Ser Glu Leu Arg Leu Tyr
 210 215 220

Tyr Arg Gly Ala Asn Leu His Leu Glu Glu Thr Leu Ala Glu Phe Trp
 225 230 235 240
 Ala Arg Leu Leu Glu Arg Leu Phe Lys Gln Leu His Pro Gln Leu Leu
 245 250 255
 Leu Pro Asp Asp Tyr Leu Asp Cys Leu Gly Lys Gln Ala Glu Ala Leu
 260 265 270
 Arg Pro Phe Gly Glu Ala Pro Arg Glu Leu Arg Leu Arg Ala Thr Arg
 275 280 285
 Ala Phe Val Ala Ala Arg Ser Phe Val Gln Gly Leu Gly Val Ala Ser
 290 295 300
 Asp Val Val Arg Lys Val Ala Gln Val Pro Leu Gly Pro Glu Cys Ser
 305 310 315 320
 Arg Ala Val Ile Glu Ala Gly Ser Tyr Cys Ala Leu His Cys Val Gly
 325 330 335
 Val Pro Gly Ala Arg Pro Cys Pro Asp Tyr Cys Arg Asn Val Leu Lys
 340 345 350
 Gly Cys Leu Ala Asn Gln Ala Asp Leu Asp Ala Glu Trp Arg Asn Leu
 355 360 365
 Leu Asp Ser Met Val Leu Ile Thr Asp Lys Phe Trp Gly Thr Ser Gly
 370 375 380
 Val Glu Ser Val Ile Gly Ser Val His Thr Trp Leu Ala Glu Ala Ile
 385 390 395 400
 Asn Ala Leu Gln Asp Asn Arg Asp Thr Leu Thr Ala Lys Val Ile Gln
 405 410 415
 Gly Cys Gly Asn Pro Lys Val Asn Pro Gln Gly Pro Gly Pro Glu Glu
 420 425 430
 Lys Arg Arg Arg Gly Lys Leu Ala Pro Arg Glu Arg Pro Pro Ser Gly
 435 440 445
 Thr Leu Glu Lys Leu Val Ser Glu Ala Lys Ala Gln Leu Arg Asp Val
 450 455 460
 Gln Asp Phe Trp Ile Ser Leu Pro Gly Thr Leu Cys Ser Glu Lys Met
 465 470 475 480
 Ala Leu Ser Thr Ala Ser Asp Asp Arg Cys Trp Asn Gly Met Ala Arg
 485 490 495
 Gly Arg Tyr Leu Pro Glu Val Met Gly Asp Gly Leu Ala Asn Gln Ile
 500 505 510
 Asn Asn Pro Glu Val Glu Val Asp Ile Thr Lys Pro Asp Met Thr Ile
 515 520 525
 Arg Gln Gln Ile Met Gln Leu Lys Ile Met Thr Asn Arg Leu Arg Ser
 530 535 540
 Ala Tyr Asn Gly Asn Asp Val Asp Phe Gln Asp Ala Ser Asp Asp Gly
 545 550 555 560
 Ser Gly Ser Gly Ser Gly Asp Gly Cys Leu Asp Asp Leu Cys Gly Arg
 565 570 575
 Lys Val Ser Arg Lys Ser Ser Ser Ser Arg Thr Pro Leu Thr His Ala
 580 585 590
 Leu Pro Gly Leu Ser Glu Gln Glu Gly Gln Lys Thr Ser Ala Ala Ser
 595 600 605
 Cys Pro Gln Pro Pro Thr Phe Leu Leu Pro Leu Leu Leu Phe Leu Ala
 610 615 620
 Leu Thr Val Ala Arg Pro Arg Trp Arg
 625 630 633

<210> 2181
 <211> 507
 <212> PRT
 <213> Homo sapiens

<400> 2181
 Ala Ser Arg His Gly Met Thr Pro Gly Ala Leu Leu Met Leu Leu Gly
 1 5 10 15

Ala Leu Gly Pro Pro Leu Ala Pro Gly Val Arg Gly Ser Glu Ala Glu
 20 25 30
 Gly Arg Leu Arg Glu Lys Leu Phe Ser Gly Tyr Asp Ser Ser Val Arg
 35 40 45
 Pro Ala Arg Glu Val Gly Asp Arg Val Arg Val Ser Val Gly Leu Ile
 50 55 60
 Leu Ala Gln Leu Ile Ser Leu Asn Glu Lys Asp Glu Glu Met Ser Thr
 65 70 75 80
 Lys Val Tyr Leu Asp Leu Glu Trp Thr Asp Tyr Arg Leu Ser Trp Asp
 85 90 95
 Pro Ala Glu His Asp Gly Ile Asp Ser Leu Arg Ile Thr Ala Glu Ser
 100 105 110
 Val Trp Leu Pro Asp Val Val Leu Leu Asn Asn Asn Asp Gly Asn Phe
 115 120 125
 Asp Val Ala Leu Asp Ile Ser Val Val Val Ser Ser Asp Gly Ser Val
 130 135 140
 Arg Trp Gln Pro Pro Gly Ile Tyr Arg Ser Ser Cys Ser Ile Gln Val
 145 150 155 160
 Thr Tyr Phe Pro Phe Asp Trp Gln Asn Cys Thr Met Val Phe Ser Ser
 165 170 175
 Tyr Ser Tyr Asp Ser Ser Glu Val Ser Leu Gln Thr Gly Leu Gly Pro
 180 185 190
 Asp Gly Gln Gly His Gln Glu Ile His Ile His Glu Gly Thr Phe Ile
 195 200 205
 Glu Asn Gly Gln Trp Glu Asn Ile His Lys Pro Ser Arg Leu Ile Gln
 210 215 220
 Pro Pro Gly Asp Pro Arg Gly Gly Arg Glu Gly Gln Arg Gln Glu Val
 225 230 235 240
 Ile Phe Tyr Leu Ile Arg Arg Lys Pro Leu Phe Tyr Leu Val Asn
 245 250 255
 Val Ile Ala Pro Cys Ile Leu Ile Thr Leu Leu Ala Ile Phe Val Phe
 260 265 270
 Tyr Leu Pro Pro Asp Ala Gly Glu Lys Met Gly Leu Ser Ile Phe Ala
 275 280 285
 Leu Leu Thr Leu Thr Val Phe Leu Leu Leu Leu Ala Asp Lys Val Pro
 290 295 300
 Glu Thr Ser Leu Ser Val Pro Ile Ile Ile Lys Tyr Leu Met Phe Thr
 305 310 315 320
 Met Val Leu Val Thr Phe Ser Val Ile Leu Ser Val Val Val Leu Asn
 325 330 335
 Leu His His Arg Ser Pro His Thr His Gln Met Pro Leu Trp Val Arg
 340 345 350
 Gln Ile Phe Ile His Lys Leu Pro Leu Tyr Leu Arg Leu Lys Arg Pro
 355 360 365
 Lys Pro Glu Arg Asp Leu Met Pro Glu Pro Pro His Cys Ser Ser Pro
 370 375 380
 Gly Ser Gly Trp Gly Arg Gly Thr Asp Glu Tyr Phe Ile Arg Lys Pro
 385 390 395 400
 Pro Ser Asp Phe Leu Phe Pro Lys Pro Asn Arg Phe Gln Pro Glu Leu
 405 410 415
 Ser Ala Pro Asp Leu Arg Arg Phe Ile Asp Gly Pro Asn Arg Ala Val
 420 425 430
 Ala Leu Leu Pro Glu Leu Arg Glu Val Val Ser Ser Ile Ser Tyr Ile
 435 440 445
 Ala Arg Gln Leu Gln Glu Gln Glu Asp His Asp Ala Leu Lys Glu Asp
 450 455 460
 Trp Gln Phe Val Ala Met Val Val Asp Arg Leu Phe Leu Trp Thr Phe
 465 470 475 480
 Ile Ile Phe Thr Ser Val Gly Thr Leu Val Ile Phe Leu Asp Ala Thr
 485 490 495
 Tyr His Leu Pro Pro Pro Asp Pro Phe Pro
 500 505 506

<210> 2182
 <211> 337
 <212> PRT
 <213> Homo sapiens

<400> 2182
 Glu Thr Met Ala Lys Asn Pro Pro Glu Asn Cys Glu Asp Cys His Ile
 1 5 10 15
 Leu Asn Ala Glu Ala Phe Lys Ser Lys Lys Ile Cys Lys Ser Leu Lys
 20 25 30
 Ile Cys Gly Leu Val Phe Gly Ile Leu Ala Leu Thr Leu Ile Val Leu
 35 40 45
 Phe Trp Gly Ser Lys His Phe Trp Pro Glu Val Pro Lys Lys Ala Tyr
 50 55 60
 Asp Met Glu His Thr Phe Tyr Ser Asn Gly Glu Lys Lys Lys Ile Tyr
 65 70 75 80
 Met Glu Ile Asp Pro Val Thr Arg Thr Glu Ile Phe Arg Ser Gly Asn
 85 90 95
 Gly Thr Asp Glu Thr Leu Glu Val His Asp Phe Lys Asn Gly Tyr Thr
 100 105 110
 Gly Ile Tyr Phe Val Gly Leu Gln Lys Cys Phe Ile Lys Thr Gln Ile
 115 120 125
 Lys Val Ile Pro Glu Phe Ser Glu Pro Glu Glu Glu Ile Asp Glu Asn
 130 135 140
 Glu Glu Ile Thr Thr Thr Phe Phe Glu Gln Ser Val Ile Trp Val Pro
 145 150 155 160
 Ala Glu Lys Pro Ile Glu Asn Arg Asp Phe Leu Lys Asn Ser Lys Ile
 165 170 175
 Leu Glu Ile Cys Asp Asn Val Thr Met Tyr Trp Ile Asn Pro Thr Leu
 180 185 190
 Ile Ser Gly Thr Phe Ala Lys Gln Leu His His Asn Phe Ala Phe Ile
 195 200 205
 Ile Leu Val Ser Glu Leu Gln Asp Phe Glu Glu Glu Gly Glu Asp Leu
 210 215 220
 His Phe Pro Ala Asn Glu Lys Lys Gly Ile Glu Gln Asn Glu Gln Trp
 225 230 235 240
 Val Val Pro Gln Val Lys Val Glu Lys Thr Arg His Ala Arg Gln Ala
 245 250 255
 Ser Glu Glu Glu Leu Pro Ile Asn Asp Tyr Thr Glu Asn Gly Ile Glu
 260 265 270
 Phe Asp Pro Met Leu Asp Glu Arg Gly Tyr Cys Cys Ile Tyr Cys Arg
 275 280 285
 Arg Gly Asn Arg Tyr Cys Arg Arg Val Cys Glu Pro Leu Leu Gly Tyr
 290 295 300
 Tyr Pro Tyr Pro Tyr Cys Tyr Gln Gly Gly Arg Val Ile Cys Arg Val
 305 310 315 320
 Ile Met Pro Cys Asn Trp Trp Val Ala Arg Met Leu Gly Arg Val
 325 330 335

<210> 2183
 <211> 162
 <212> PRT
 <213> Homo sapiens

<400> 2183
 Glu Ala Glu Gly Glu Gln Val Cys Gly Ala Lys Cys Cys Gly Asp Ala
 1 5 10 15
 Pro His Val Glu Asn Arg Glu Glu Glu Thr Ala Arg Ile Gly Pro Gly
 20 25 30

Val Met Glu Ser Lys Glu Glu Arg Ala Leu Asn Asn Leu Ile Val Glu
 35 40 45
 Asn Val Asn Gln Glu Asn Asp Glu Lys Asp Glu Lys Glu Gln Val Ala
 50 55 60
 Asn Lys Gly Glu Pro Leu Ala Leu Pro Leu Asn Val Ser Glu Tyr Cys
 65 70 75 80
 Val Pro Arg Gly Asn Arg Arg Arg Phe Arg Val Arg Gln Pro Ile Leu
 85 90 95
 Gln Tyr Arg Trp Asp Ile Met His Arg Leu Gly Glu Pro Gln Ala Arg
 100 105 110
 Met Arg Glu Glu Asn Met Glu Arg Ile Gly Glu Glu Val Arg Gln Leu
 115 120 125
 Met Glu Lys Leu Arg Glu Lys Gln Leu Ser His Ser Leu Arg Ala Val
 130 135 140
 Ser Thr Asp Pro Pro His His Asp His His Asp Glu Phe Cys Leu Met
 145 150 155 160
 Pro
 161

<210> 2184

<211> 674

<212> PRT

<213> Homo sapiens

<400> 2184

Pro Asn Gly Val Ala Leu Leu His Leu Pro Gly Ala Ala Val Ile Pro
 1 5 10 15
 Asn Thr Asn Tyr Met Phe Gln Asp Ala Leu Gly Gly Arg Ser Arg Gly
 20 25 30
 Ser Arg Glu Glu Ser Pro Ala Pro Ser Arg Ala Pro Ala Ser Ala Ser
 35 40 45
 Leu Trp Arg Arg Leu Val Val Val Glu Ala Lys Met Ala Ala His Ala
 50 55 60
 Ala Ala Ala Ala Gln Ala Ala Ala Gln Ala Ala His Ala Glu Ala
 65 70 75 80
 Ala Asp Ser Trp Tyr Leu Ala Leu Leu Gly Phe Ala Glu His Phe Arg
 85 90 95
 Thr Ser Ser Pro Pro Lys Ile Arg Leu Cys Val His Cys Leu Gln Ala
 100 105 110
 Val Phe Pro Phe Lys Pro Pro Gln Arg Ile Glu Ala Arg Thr His Leu
 115 120 125
 Gln Leu Gly Ser Val Leu Tyr His His Thr Lys Asn Ser Glu Gln Ala
 130 135 140
 Arg Ser His Leu Glu Lys Ala Trp Leu Ile Ser Gln Gln Ile Pro Gln
 145 150 155 160
 Phe Glu Asp Val Lys Phe Glu Ala Ala Ser Leu Leu Ser Glu Leu Tyr
 165 170 175
 Cys Gln Glu Asn Ser Val Asp Ala Ala Lys Pro Leu Leu Arg Lys Ala
 180 185 190
 Ile Gln Ile Ser Gln Gln Thr Pro Tyr Trp His Cys Arg Leu Leu Phe
 195 200 205
 Gln Leu Ala Gln Leu His Thr Leu Glu Lys Asp Leu Val Ser Ala Cys
 210 215 220
 Asp Leu Leu Gly Val Gly Ala Glu Tyr Ala Arg Val Val Gly Ser Glu
 225 230 235 240
 Tyr Thr Arg Ala Leu Phe Leu Leu Ser Lys Gly Met Leu Leu Leu Met
 245 250 255
 Glu Arg Lys Leu Gln Glu Val His Pro Leu Leu Thr Leu Cys Gly Gln
 260 265 270
 Ile Val Glu Asn Trp Gln Gly Asn Pro Ile Gln Lys Glu Ser Leu Arg
 275 280 285

Val Phe Phe Leu Val Leu Gln Val Thr His Tyr Leu Asp Ala Gly Gln
 290 295 300
 Val Lys Ser Val Lys Pro Cys Leu Lys Gln Leu Gln Gln Cys Ile Gln
 305 310 315 320
 Thr Ile Ser Thr Leu His Asp Asp Glu Ile Leu Pro Ser Asn Pro Ala
 325 330 335
 Asp Leu Phe His Trp Leu Pro Lys Glu His Met Cys Val Leu Val Tyr
 340 345 350
 Leu Val Thr Val Met His Ser Met Gln Ala Gly Tyr Leu Glu Lys Ala
 355 360 365
 Gln Lys Tyr Thr Asp Lys Ala Leu Met Gln Leu Glu Lys Leu Lys Met
 370 375 380
 Leu Asp Cys Ser Pro Ile Leu Ser Ser Phe Gln Val Ile Leu Leu Glu
 385 390 395 400
 His Ile Ile Met Cys Arg Leu Val Thr Gly His Lys Ala Thr Ala Leu
 405 410 415
 Gln Glu Ile Ser Gln Val Cys Gln Leu Cys Gln Gln Ser Pro Arg Leu
 420 425 430
 Phe Ser Asn His Ala Ala Gln Leu His Thr Leu Leu Gly Leu Tyr Cys
 435 440 445
 Val Ser Val Asn Cys Met Asp Asn Ala Glu Ala Gln Phe Thr Thr Ala
 450 455 460
 Leu Arg Leu Thr Asn His Gln Glu Leu Trp Ala Phe Ile Val Thr Asn
 465 470 475 480
 Leu Ala Ser Val Tyr Ile Arg Glu Gly Asn Arg His Gln Glu Val Val
 485 490 495
 Leu Tyr Ser Leu Leu Glu Arg Ile Asn Pro Asp His Ser Phe Pro Val
 500 505 510
 Ser Ser His Cys Leu Arg Ala Ala Ala Phe Tyr Val Arg Gly Leu Phe
 515 520 525
 Ser Phe Phe Gln Gly Arg Tyr Asn Glu Ala Lys Arg Phe Leu Arg Glu
 530 535 540
 Thr Leu Lys Met Ser Asn Ala Glu Asp Leu Asn Arg Leu Thr Ala Cys
 545 550 555 560
 Ser Leu Val Leu Leu Gly His Ile Phe Tyr Val Leu Gly Asn His Arg
 565 570 575
 Glu Ser Asn Asn Met Val Val Pro Ala Met Gln Leu Ala Ser Lys Ile
 580 585 590
 Pro Asp Met Ser Val Gln Leu Trp Ser Ser Ala Leu Leu Arg Asp Leu
 595 600 605
 Asn Lys Ala Cys Gly Asn Ala Met Asp Ala His Glu Ala Ala Gln Met
 610 615 620
 His Gln Asn Phe Ser Gln Gln Leu Leu Gln Asp His Ile Glu Ala Cys
 625 630 635 640
 Ser Leu Pro Glu His Asn Leu Ile Thr Trp Thr Asp Gly Pro Pro Pro
 645 650 655
 Val Gln Phe Gln Ala Gln Asn Gly Pro Asn Thr Ser Leu Ala Ser Leu
 660 665 670
 Leu
 673

<210> 2185
 <211> 312
 <212> PRT
 <213> Homo sapiens

<400> 2185
 Pro Thr Arg Arg Pro Ile Leu Pro Leu Thr Ser Pro Lys Ala Ile Ser
 1 5 10 15
 Val Pro Ser Pro Leu Gln Gly Lys Gln His Thr Leu Val Lys Ser Cys
 20 25 30


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Leu Ser Val Ser Gly Ile Gly Gly Phe Leu Val Ser Leu Ser Ser Arg
   35           40           45
Met Lys Leu Gln Thr Leu Ala Val Ser Val Thr Ala Leu Lys Phe Trp
   50           55           60
Ser Ala Tyr Val Pro Cys Gln Thr Gln Asp Arg Asp Ala Leu Arg Leu
   65           70           75           80
Thr Leu Glu Gln Ile Asp Leu Ile Arg Arg Met Cys Ala Ser Tyr Ser
           85           90           95
Glu Leu Glu Leu Val Thr Ser Ala Lys Ala Leu Asn Asp Thr Gln Lys
           100          105          110
Leu Ala Cys Leu Ile Gly Val Glu Gly Gly His Ser Leu Asp Asn Ser
           115          120          125
Leu Ser Ile Leu Arg Thr Phe Tyr Met Leu Gly Val Arg Tyr Leu Thr
           130          135          140
Leu Thr His Thr Cys Asn Thr Pro Trp Ala Glu Ser Ser Ala Lys Gly
           145          150          155          160
Val His Ser Phe Tyr Asn Asn Ile Ser Gly Leu Thr Asp Phe Gly Glu
           165          170          175
Lys Val Val Ala Glu Met Asn Arg Leu Gly Met Met Val Asp Leu Ser
           180          185          190
His Val Ser Asp Ala Val Ala Arg Arg Ala Leu Glu Val Ser Gln Ala
           195          200          205
Pro Val Ile Phe Ser His Ser Ala Ala Arg Gly Val Cys Asn Ser Ala
           210          215          220
Arg Asn Val Pro Asp Asp Ile Leu Gln Leu Leu Glu Glu Glu Arg Trp
           225          230          235          240
Ala Phe Val Met Val Ser Leu Phe His Gly Glu Leu Ile Gln Trp Gln
           245          250          255
Pro Ile Arg Pro Met Cys Ser Thr Val Ala Asp His Phe Asp His Ile
           260          265          270
Lys Ala Val Ile Gly Ser Lys Phe Ile Gly Ile Gly Gly Asp Tyr Asp
           275          280          285
Gly Ala Gly Lys Tyr Arg Lys Lys Thr Thr Cys Lys Ala Pro Trp Arg
           290          295          300
Thr Ser Ser Arg Met Ser Ser
           305          310          311

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<210> 2186
 <211> 103
 <212> PRT
 <213> Homo sapiens

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<400> 2186
Pro Pro Arg Ser Arg Pro Ser Cys Trp Arg Lys Lys Val Gly Pro Gly
   1           5           10          15
Arg Pro Trp Trp Trp Gly Gly Thr Gly Pro Pro Gly Gln Gly Arg Pro
           20           25           30
Glu Ile Arg Leu Leu Pro Leu Pro Met Thr Gly Ala Cys Gly Ala Val
           35           40           45
Ala Ala Ser Arg Thr Gly Ser Ser Gly Pro Gly Ser Ser Leu Pro Asn
           50           55           60
Gly His Gly Gly Lys Gly Ser Gly Leu Ala Asn Gly Leu Ala Gly Asn
           65           70           75           80
Pro Gly His Leu Gly Leu Gly Ser Ser Phe Gly Thr Gly Pro Gly Ser
           85           90           95
Gly Arg Pro Pro Pro
           100          101

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<210> 2187

<211> 544
 <212> PRT
 <213> Homo sapiens

<400> 2187
 Val Leu Arg Gly Gln Arg Gly Pro Ala Gly Gly Leu Ala Glu Glu Arg
 1 5 10 15
 Arg Arg Gly Arg Asn Glu Trp Arg Ile His Asp Val Thr Thr Ala Pro
 20 25 30
 Phe Pro Gly Leu Val Gln Arg Arg Ser Arg Leu Leu Ile Val Ser Gln
 35 40 45
 Val Arg Tyr Phe Leu Lys Asn Lys Val Ser Pro Asp Leu Cys Asn Glu
 50 55 60
 Asp Gly Leu Thr Ala Leu His Gln Cys Cys Ile Asp Asn Phe Glu Glu
 65 70 75 80
 Ile Val Lys Leu Leu Leu Ser His Gly Ala Asn Val Asn Ala Lys Asp
 85 90 95
 Asn Glu Leu Trp Thr Pro Leu His Ala Ala Thr Cys Gly His Ile
 100 105 110
 Asn Leu Val Lys Ile Leu Val Gln Tyr Gly Ala Asp Leu Leu Ala Val
 115 120 125
 Asn Ser Asp Gly Asn Met Pro Tyr Asp Leu Cys Glu Asp Glu Pro Thr
 130 135 140
 Leu Asp Val Ile Glu Thr Cys Met Ala Tyr Gln Gly Ile Thr Gln Glu
 145 150 155 160
 Lys Ile Asn Glu Met Arg Val Ala Pro Glu Gln Gln Met Ile Ala Asp
 165 170 175
 Ile His Cys Met Ile Ala Ala Gly Gln Asp Leu Asp Trp Ile Asp Ala
 180 185 190
 Gln Gly Ala Thr Leu Leu His Ile Ala Gly Ala Asn Gly Tyr Leu Arg
 195 200 205
 Ala Ala Glu Leu Leu Leu Asp His Gly Val Arg Val Asp Val Lys Asp
 210 215 220
 Trp Asp Gly Trp Glu Pro Leu His Ala Ala Ala Phe Trp Gly Gln Met
 225 230 235 240
 Gln Met Ala Glu Leu Leu Val Ser His Gly Ala Asn Leu Asn Ala Arg
 245 250 255
 Thr Ser Met Asp Glu Met Pro Ile Asp Leu Cys Glu Glu Glu Glu Phe
 260 265 270
 Lys Val Leu Leu Leu Glu Leu Lys His Lys His Asp Val Ile Met Lys
 275 280 285
 Ser Gln Leu Arg His Lys Ser Ser Leu Ser Arg Arg Thr Ser His Arg
 290 295 300
 Gln Ala Ser Ser Val Gly Lys Val Val Arg Arg Thr Gln Pro Val Gly
 305 310 315 320
 Thr Gly Pro Asn Leu Tyr Arg Lys Glu Tyr Glu Gly Glu Glu Ala Ile
 325 330 335
 Leu Trp Gln Arg Ser Ala Ala Glu Asp Gln Arg Thr Ser Thr Tyr Asn
 340 345 350
 Gly Asp Ile Arg Glu Thr Arg Thr Asp Gln Glu Asn Lys Asp Pro Asn
 355 360 365
 Pro Arg Leu Glu Lys Pro Val Leu Leu Ser Glu Phe Pro Thr Lys Ile
 370 375 380
 Pro Arg Gly Glu Leu Asp Met Pro Val Glu Asn Gly Leu Arg Ala Pro
 385 390 395 400
 Val Ser Ala Tyr Gln Tyr Ala Leu Ala Asn Gly Asp Val Trp Lys Val
 405 410 415
 His Glu Val Pro Asp Tyr Ser Met Ala Tyr Gly Asn Pro Gly Val Ala
 420 425 430
 Asp Ala Thr Pro Pro Trp Ser Ser Tyr Lys Glu Gln Ser Pro Gln Thr
 435 440 445
 Leu Leu Glu Leu Lys Arg Gln Arg Ala Ala Ala Lys Leu Leu Ser His
 450 455 460

Pro Phe Leu Ser Thr His Leu Gly Ser Ser Met Ala Arg Thr Gly Glu
 465 470 475 480
 Ser Ser Ser Glu Gly Lys Ala Pro Leu Ile Gly Gly Arg Thr Ser Pro
 485 490 495
 Tyr Ser Ser Asn Gly Thr Ser Val Tyr Tyr Thr Val Thr Ser Gly Asp
 500 505 510
 Pro Pro Leu Leu Lys Phe Lys Ala Pro Ile Glu Glu Met Glu Glu Lys
 515 520 525
 Val His Gly Cys Cys Arg Ile Ser
 530 535 536

<210> 2188
 <211> 1851
 <212> PRT
 <213> Homo sapiens

<400> 2188
 Ala Gly Pro Leu Glu Pro Arg Val Gln Gly Ala Met Ala Leu Gln Leu
 1 5 10 15
 Trp Ala Leu Thr Leu Leu Gly Leu Leu Gly Ala Gly Ala Ser Leu Arg
 20 25 30
 Pro Arg Lys Leu Asp Phe Phe Arg Ser Glu Lys Glu Leu Asn His Leu
 35 40 45
 Ala Val Asp Glu Ala Ser Gly Val Val Tyr Leu Gly Ala Val Asn Ala
 50 55 60
 Leu Tyr Gln Leu Asp Ala Lys Leu Gln Leu Glu Gln Gln Val Ala Thr
 65 70 75 80
 Gly Pro Val Leu Asp Asn Lys Lys Cys Thr Pro Pro Ile Glu Ala Ser
 85 90 95
 Gln Cys His Glu Ala Glu Met Thr Asp Asn Val Asn Gln Leu Leu Leu
 100 105 110
 Val Asp Pro Pro Arg Lys Arg Leu Val Glu Cys Gly Gln Leu Leu Lys
 115 120 125
 Gly Ile Cys Ala Leu Arg Ala Leu Ser Asn Ile Ser Leu Arg Leu Phe
 130 135 140
 Tyr Glu Asp Gly Ser Gly Glu Lys Ser Phe Val Ala Ser Asn Asp Glu
 145 150 155 160
 Gly Val Ala Thr Val Gly Leu Val Ser Ser Thr Gly Pro Gly Gly Asp
 165 170 175
 Arg Val Leu Phe Val Gly Lys Gly Asn Gly Pro His Asp Asn Gly Ile
 180 185 190
 Ile Val Ser Thr Arg Leu Leu Asp Arg Thr Asp Ser Arg Glu Ala Phe
 195 200 205
 Glu Ala Tyr Thr Asp His Ala Thr Tyr Lys Ala Gly Tyr Leu Ser Thr
 210 215 220
 Asn Thr Gln Gln Phe Val Ala Ala Phe Glu Asp Gly Pro Tyr Val Phe
 225 230 235 240
 Phe Val Phe Asn Gln Gln Asp Lys His Pro Ala Arg Asn Arg Thr Leu
 245 250 255
 Leu Ala Arg Met Cys Arg Glu Asp Pro Asn Tyr Tyr Ser Tyr Leu Glu
 260 265 270
 Met Asp Leu Gln Cys Arg Asp Pro Asp Ile His Ala Ala Phe Gly
 275 280 285
 Thr Cys Leu Ala Ala Ser Val Ala Ala Pro Gly Ser Gly Arg Val Leu
 290 295 300
 Tyr Ala Val Phe Ser Arg Asp Ser Arg Ser Ser Gly Gly Pro Gly Ala
 305 310 315 320
 Gly Leu Cys Leu Phe Pro Leu Asp Glu Val His Ala Lys Met Glu Ala
 325 330 335
 Asn Arg Asn Ala Cys Tyr Thr Gly Thr Arg Glu Ala Arg Asp Ile Phe
 340 345 350

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Tyr Lys Pro Phe His Gly Asp Ile Gln Cys Gly Gly His Ala Pro Gly
355 360 365
Ser Ser Lys Ser Phe Pro Cys Gly Ser Glu His Leu Pro Tyr Pro Leu
370 375 380
Gly Ser Arg Asp Gly Leu Arg Gly Thr Ala Val Leu Gln Arg Gly Gly
385 390 395 400
Leu Asn Leu Thr Ala Val Thr Val Ala Ala Glu Asn Asn His Thr Val
405 410 415
Ala Phe Leu Gly Thr Ser Asp Gly Arg Ile Leu Lys Val Tyr Leu Thr
420 425 430
Pro Asp Gly Thr Ser Ser Glu Tyr Asp Ser Ile Leu Val Glu Ile Asn
435 440 445
Lys Arg Val Lys Arg Asp Leu Val Leu Ser Gly Asp Leu Gly Ser Leu
450 455 460
Tyr Ala Met Thr Gln Asp Lys Val Phe Arg Leu Pro Val Gln Glu Cys
465 470 475 480
Leu Ser Tyr Pro Thr Cys Thr Gln Cys Arg Asp Ser Gln Asp Pro Tyr
485 490 495
Cys Gly Trp Cys Val Val Glu Gly Arg Cys Thr Arg Lys Ala Glu Cys
500 505 510
Pro Arg Ala Glu Glu Ala Ser His Trp Leu Trp Ser Arg Ser Lys Ser
515 520 525
Cys Val Ala Val Thr Ser Ala Gln Pro Gln Asn Met Ser Arg Arg Ala
530 535 540
Gln Gly Glu Val Gln Leu Thr Val Ser Pro Leu Pro Ala Leu Ser Glu
545 550 555 560
Glu Asp Glu Leu Leu Cys Leu Phe Gly Glu Ser Pro Pro His Pro Ala
565 570 575
Arg Val Glu Gly Glu Ala Val Ile Cys Asn Ser Pro Ser Ser Ile Pro
580 585 590
Val Thr Pro Pro Gly Gln Asp His Val Ala Val Thr Ile Gln Leu Leu
595 600 605
Leu Arg Arg Gly Asn Ile Phe Leu Thr Ser Tyr Gln Tyr Pro Phe Tyr
610 615 620
Asp Cys Arg Gln Ala Met Ser Leu Glu Glu Asn Leu Pro Cys Ile Ser
625 630 635 640
Cys Val Ser Asn Arg Trp Thr Cys Gln Trp Asp Leu Arg Tyr His Glu
645 650 655
Cys Arg Glu Ala Ser Pro Asn Pro Glu Asp Gly Ile Val Arg Ala His
660 665 670
Met Glu Asp Ser Cys Pro Gln Phe Leu Gly Pro Ser Pro Leu Val Ile
675 680 685
Pro Met Asn His Glu Thr Asp Val Asn Phe Gln Gly Lys Asn Leu Asp
690 695 700
Thr Val Lys Gly Ser Ser Leu His Val Gly Ser Asp Leu Leu Lys Phe
705 710 715 720
Met Glu Pro Val Thr Met Gln Glu Ser Gly Thr Phe Ala Phe Arg Thr
725 730 735
Pro Lys Leu Ser His Asp Ala Asn Glu Thr Leu Pro Leu His Leu Tyr
740 745 750
Val Lys Ser Tyr Gly Lys Asn Ile Asp Ser Lys Leu His Val Thr Leu
755 760 765
Tyr Asp Cys Ser Phe Gly Arg Ser Asp Cys Ser Leu Cys Arg Ala Ala
770 775 780
Asn Pro Asp Tyr Arg Cys Ala Trp Cys Gly Gly Gln Ser Arg Cys Val
785 790 795 800
Tyr Glu Ala Leu Cys Asn Thr Thr Ser Glu Cys Pro Pro Pro Val Ile
805 810 815
Thr Arg Ile Gln Pro Glu Thr Gly Pro Leu Gly Gly Gly Ile Arg Ile
820 825 830
Thr Ile Leu Gly Ser Asn Leu Gly Val Gln Ala Gly Asp Ile Gln Arg
835 840 845
Ile Ser Val Ala Gly Arg Asn Cys Ser Phe Gln Pro Glu Arg Tyr Ser
850 855 860

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Val Ser Thr Arg Ile Val Cys Val Ile Glu Ala Ala Glu Thr Pro Phe
 865 870 875 880
 Thr Gly Gly Val Glu Val Asp Val Phe Gly Lys Leu Gly Arg Ser Pro
 885 890 895
 Pro Asn Val Gln Phe Thr Phe Gln Gln Pro Lys Pro Leu Ser Val Glu
 900 905 910
 Pro Gln Gln Gly Pro Gln Ala Gly Gly Thr Thr Leu Thr Ile His Gly
 915 920 925
 Thr His Leu Asp Thr Gly Ser Gln Glu Asp Val Arg Val Thr Leu Asn
 930 935 940
 Gly Val Pro Cys Lys Val Thr Lys Phe Gly Ala Gln Leu Gln Cys Val
 945 950 955 960
 Thr Gly Pro Gln Ala Thr Arg Gly Gln Met Leu Leu Glu Val Ser Tyr
 965 970 975
 Gly Gly Ser Pro Val Pro Asn Pro Gly Ile Phe Phe Thr Tyr Arg Glu
 980 985 990
 Asn Pro Val Leu Arg Ala Phe Glu Pro Leu Arg Ser Phe Ala Ser Gly
 995 1000 1005
 Gly Arg Ser Ile Asn Val Thr Gly Gln Gly Phe Ser Leu Ile Gln Arg
 1010 1015 1020
 Phe Ala Met Val Val Ile Ala Glu Pro Leu Gln Ser Trp Gln Pro Pro
 1025 1030 1035 1040
 Arg Glu Ala Glu Ser Leu Gln Pro Met Thr Val Val Gly Thr Asp Tyr
 1045 1050 1055
 Val Phe His Asn Asp Thr Lys Val Val Phe Leu Ser Pro Ala Val Pro
 1060 1065 1070
 Glu Glu Pro Glu Ala Tyr Asn Leu Thr Val Leu Ile Glu Met Asp Gly
 1075 1080 1085
 His Arg Ala Leu Leu Arg Thr Glu Ala Gly Ala Phe Glu Tyr Val Pro
 1090 1095 1100
 Asp Pro Thr Phe Glu Asn Phe Thr Gly Gly Val Lys Lys Gln Val Asn
 1105 1110 1115 1120
 Lys Leu Ile Arg Ala Arg Gly Thr Asn Leu Asn Lys Ala Met Thr Leu
 1125 1130 1135
 Gln Glu Ala Glu Ala Phe Val Gly Ala Glu Arg Cys Thr Met Lys Thr
 1140 1145 1150
 Leu Thr Glu Thr Asp Leu Tyr Cys Glu Pro Pro Glu Val Gln Pro Pro
 1155 1160 1165
 Pro Lys Arg Arg Gln Lys Arg Asp Thr Thr His Asn Leu Pro Glu Phe
 1170 1175 1180
 Ile Val Lys Phe Gly Ser Arg Glu Trp Val Leu Gly Arg Val Glu Tyr
 1185 1190 1195 1200
 Asp Thr Arg Val Ser Asp Val Pro Leu Ser Leu Ile Leu Pro Leu Val
 1205 1210 1215
 Ile Val Pro Met Val Val Val Ile Ala Val Ser Val Tyr Cys Tyr Trp
 1220 1225 1230
 Arg Lys Ser Gln Gln Ala Glu Arg Glu Tyr Glu Lys Ile Lys Ser Gln
 1235 1240 1245
 Leu Glu Gly Leu Glu Glu Ser Val Arg Asp Arg Cys Lys Lys Glu Phe
 1250 1255 1260
 Thr Asp Leu Met Ile Glu Met Glu Asp Gln Thr Asn Asp Val His Glu
 1265 1270 1275 1280
 Ala Gly Ile Pro Val Leu Asp Tyr Lys Thr Tyr Thr Asp Arg Val Phe
 1285 1290 1295
 Phe Leu Pro Ser Lys Asp Gly Asp Lys Asp Val Met Ile Thr Gly Lys
 1300 1305 1310
 Leu Asp Ile Pro Glu Pro Arg Arg Pro Val Val Glu Gln Ala Leu Tyr
 1315 1320 1325
 Gln Phe Ser Asn Leu Leu Asn Ser Lys Ser Phe Leu Ile Asn Phe Ile
 1330 1335 1340
 His Thr Leu Glu Asn Gln Pro Glu Phe Ser Ala Arg Ala Lys Val Tyr
 1345 1350 1355 1360
 Phe Ala Ser Leu Leu Thr Val Ala Leu His Gly Lys Leu Glu Tyr Tyr
 1365 1370 1375

Thr Asp Ile Met His Thr Leu Phe Leu Glu Leu Leu Glu Gln Tyr Val
 1380 1385 1390
 Val Ala Lys Asn Pro Lys Leu Met Leu Arg Arg Ser Glu Thr Val Val
 1395 1400 1405
 Glu Arg Met Leu Ser Asn Trp Met Ser Ile Cys Leu Tyr Gln Tyr Leu
 1410 1415 1420
 Lys Asp Ser Ala Gly Glu Pro Leu Tyr Lys Leu Phe Lys Ala Ile Lys
 1425 1430 1435 1440
 His Gln Val Glu Lys Gly Pro Val Asp Ala Val Gln Lys Lys Ala Lys
 1445 1450 1455
 Tyr Thr Leu Asn Asp Thr Gly Leu Leu Gly Asp Asp Val Glu Tyr Ala
 1460 1465 1470
 Pro Leu Thr Val Ser Val Ile Val Gln Asp Glu Gly Val Asp Ala Ile
 1475 1480 1485
 Pro Val Lys Val Leu Asn Cys Asp Thr Ile Ser Gln Val Lys Glu Lys
 1490 1495 1500
 Ile Ile Asp Gln Val Tyr Arg Gly Gln Pro Cys Ser Cys Trp Pro Arg
 1505 1510 1515 1520
 Pro Asp Ser Val Val Leu Glu Trp Arg Pro Gly Ser Thr Ala Gln Ile
 1525 1530 1535
 Leu Ser Asp Leu Asp Leu Thr Ser Gln Arg Glu Gly Arg Trp Lys Arg
 1540 1545 1550
 Val Asn Thr Leu Met His Tyr Asn Val Arg Asp Gly Ala Thr Leu Ile
 1555 1560 1565
 Leu Ser Lys Val Gly Val Ser Gln Gln Pro Glu Asp Ser Gln Gln Asp
 1570 1575 1580
 Leu Pro Gly Glu Arg His Ala Leu Leu Glu Glu Glu Asn Arg Val Trp
 1585 1590 1595 1600
 His Leu Val Arg Pro Thr Asp Glu Val Asp Glu Gly Lys Ser Lys Arg
 1605 1610 1615
 Gly Ser Val Lys Glu Lys Glu Arg Thr Lys Ala Ile Thr Glu Ile Tyr
 1620 1625 1630
 Leu Thr Arg Leu Leu Ser Val Lys Gly Thr Leu Gln Gln Phe Val Asp
 1635 1640 1645
 Asn Phe Phe Gln Ser Val Leu Ala Pro Gly His Ala Val Pro Pro Ala
 1650 1655 1660
 Val Lys Tyr Phe Phe Asp Phe Leu Asp Glu Gln Ala Glu Lys His Asn
 1665 1670 1675 1680
 Ile Gln Asp Glu Asp Thr Ile His Ile Trp Lys Thr Asn Ser Leu Pro
 1685 1690 1695
 Leu Arg Phe Trp Val Asn Ile Leu Lys Asn Pro His Phe Ile Phe Asp
 1700 1705 1710
 Val His Val His Glu Val Val Asp Ala Ser Leu Ser Val Ile Ala Gln
 1715 1720 1725
 Thr Phe Met Asp Ala Cys Thr Arg Thr Glu His Lys Leu Ser Arg Asp
 1730 1735 1740
 Ser Pro Ser Asn Lys Leu Leu Tyr Ala Lys Glu Ile Ser Thr Tyr Lys
 1745 1750 1755 1760
 Lys Met Val Glu Asp Tyr Tyr Lys Gly Ile Arg Gln Met Val Gln Val
 1765 1770 1775
 Ser Asp Gln Asp Met Asn Thr His Leu Ala Glu Ile Ser Arg Ala His
 1780 1785 1790
 Thr Asp Ser Leu Asn Thr Leu Val Ala Leu His Gln Leu Tyr Gln Tyr
 1795 1800 1805
 Thr Gln Lys Tyr Tyr Asp Glu Ile Ile Asn Ala Leu Glu Glu Asp Pro
 1810 1815 1820
 Ala Ala Gln Lys Met Gln Leu Ala Phe Arg Leu Gln Gln Ile Ala Ala
 1825 1830 1835 1840
 Ala Leu Glu Asn Lys Val Thr Asp Leu
 1845 1849

<211> 499

<212> PRT

<213> Homo sapiens

<400> 2189

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Arg Ala Arg Arg Leu Ala Leu Gln Cys His Val Cys Val Cys Ala Leu
 1          5          10          15
Thr Pro Gly Glu Gln Ser Gly Arg Arg Leu Pro Gly Gln Thr Trp Leu
          20          25          30
Met Phe Ser Cys Phe Cys Phe Ser Leu Gln Asp Asn Ser Phe Ser Ser
          35          40          45
Thr Thr Val Thr Glu Cys Asp Glu Asp Pro Val Ser Leu His Glu Asp
          50          55          60
Gln Thr Asp Cys Ser Ser Leu Arg Asp Glu Asn Asn Lys Glu Asn Tyr
          65          70          75          80
Pro Asp Ala Gly Ala Leu Val Glu Glu His Ala Pro Pro Ser Trp Glu
          85          90          95
Pro Gln Gln Gln Asn Val Glu Ala Thr Val Leu Val Asp Ser Val Leu
          100          105          110
Arg Pro Ser Met Gly Asn Phe Lys Ser Arg Lys Pro Lys Ser Ile Phe
          115          120          125
Lys Ala Glu Ser Gly Arg Ser His Gly Glu Ser Gln Glu Thr Glu His
          130          135          140
Val Val Ser Ser Gln Ser Glu Cys Gln Val Arg Ala Gly Thr Pro Ala
          145          150          155          160
His Glu Ser Pro Gln Asn Asn Ala Phe Lys Cys Gln Glu Thr Val Arg
          165          170          175
Leu Gln Pro Arg Ile Asp Gln Arg Thr Ala Thr Ser Pro Lys Asp Ala
          180          185          190
Phe Glu Thr Arg Gln Asp Leu Asn Glu Glu Glu Ala Ala Gln Val His
          195          200          205
Gly Val Lys Asp Pro Ala Pro Ala Ser Thr Gln Ser Val Leu Ala Asp
          210          215          220
Gly Thr Asp Ser Ala Asp Pro Ser Pro Val His Lys Asp Gly Gln Asn
          225          230          235          240
Glu Ala Asp Ser Ala Pro Glu Asp Leu His Ser Val Gly Thr Ser Arg
          245          250          255
Leu Leu Leu Tyr His Ile Thr Asp Gly Asp Asn Pro Thr Ala Val Arg
          260          265          270
His Gly Cys Ser Leu Phe Ser Gly Gln Ser Gln Arg Phe Asn Leu Asp
          275          280          285
Pro Glu Ser Ala Pro Ser Pro Ser Thr Gln Gln Phe Met Met Pro
          290          295          300
Arg Ser Ser Ser Arg Cys Ser Cys Gly Asp Gly Lys Glu Pro Gln Thr
          305          310          315          320
Ile Thr Gln Leu Thr Lys His Ile Gln Ser Leu Lys Arg Lys Ile Arg
          325          330          335
Lys Phe Glu Glu Lys Phe Glu Gln Glu Lys Lys Tyr Arg Pro Ser His
          340          345          350
Gly Asp Lys Thr Ser Asn Pro Glu Val Leu Lys Trp Met Asn Asp Leu
          355          360          365
Ala Lys Gly Arg Lys Gln Leu Lys Glu Leu Lys Leu Lys Leu Ser Glu
          370          375          380
Glu Gln Gly Ser Ala Pro Lys Gly Pro Pro Arg Asn Leu Leu Cys Glu
          385          390          395          400
Gln Pro Thr Val Pro Arg Glu Asn Gly Lys Pro Glu Ala Ala Gly Pro
          405          410          415
Glu Pro Ser Ser Ser Gly Glu Glu Thr Pro Asp Ala Ala Leu Thr Cys
          420          425          430
Leu Lys Glu Arg Arg Glu Gln Leu Pro Pro Gln Glu Asp Ser Lys Val
          435          440          445
Thr Lys Gln Asp Lys Asn Leu Ile Lys Pro Leu Tyr Asp Arg Tyr Arg
          450          455          460

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Ile Ile Lys Gln Ile Leu Ser Thr Pro Ser Leu Ile Pro Thr Ile Val
 465 470 475 480
 Ser Gln Asp Thr Cys Met Leu Leu Leu Cys Thr Asp Val
 485 490 493

<210> 2190
 <211> 686
 <212> PRT
 <213> Homo sapiens

<400> 2190
 Phe Phe Arg Phe Tyr Phe Ser Phe Ile Arg Leu Phe Ala Met Ser Leu
 1 5 10 15
 Ala Asp Leu Thr Lys Thr Asn Ile Asp Glu His Phe Phe Gly Val Ala
 20 25 30
 Leu Glu Asn Asn Arg Arg Ser Ala Ala Cys Lys Arg Ser Pro Gly Thr
 35 40 45
 Gly Asp Phe Ser Arg Asn Ser Asn Ala Ser Asn Lys Ser Val Asp Tyr
 50 55 60
 Ser Arg Ser Gln Cys Ser Cys Gly Ser Leu Ser Ser Gln Tyr Asp Tyr
 65 70 75 80
 Ser Glu Asp Phe Leu Cys Asp Cys Ser Glu Lys Ala Ile Asn Arg Asn
 85 90 95
 Tyr Leu Lys Gln Pro Val Val Lys Glu Lys Glu Lys Lys Tyr Asn
 100 105 110
 Val Ser Lys Ile Ser Gln Ser Lys Gly Gln Lys Glu Ile Ser Val Glu
 115 120 125
 Lys Lys His Thr Trp Asn Ala Ser Leu Phe Asn Ser Gln Ile His Met
 130 135 140
 Ile Ala Gln Arg Arg Asp Ala Met Ala His Arg Ile Leu Ser Ala Arg
 145 150 155 160
 Leu His Lys Ile Lys Gly Leu Lys Asn Glu Leu Ala Asp Met His His
 165 170 175
 Lys Leu Glu Ala Ile Leu Thr Glu Asn Gln Phe Leu Lys Gln Leu Gln
 180 185 190
 Leu Arg His Leu Lys Ala Ile Gly Lys Tyr Glu Asn Ser Gln Asn Asn
 195 200 205
 Leu Pro Gln Ile Met Ala Lys His Gln Asn Glu Val Lys Asn Leu Arg
 210 215 220
 Gln Leu Leu Arg Lys Ser Gln Glu Lys Glu Arg Thr Leu Ser Arg Lys
 225 230 235 240
 Leu Arg Glu Thr Asp Ser Gln Leu Leu Lys Thr Lys Asp Ile Leu Gln
 245 250 255
 Ala Leu Gln Lys Leu Ser Glu Asp Lys Asn Leu Ala Glu Arg Glu Glu
 260 265 270
 Leu Thr His Lys Leu Ser Ile Ile Thr Thr Lys Met Asp Ala Asn Asp
 275 280 285
 Lys Lys Ile Gln Ser Leu Glu Lys Gln Leu Arg Leu Asn Cys Arg Ala
 290 295 300
 Phe Ser Arg Gln Leu Ala Ile Glu Thr Arg Lys Thr Leu Ala Ala Gln
 305 310 315 320
 Thr Ala Thr Lys Thr Leu Gln Val Glu Val Lys His Leu Gln Gln Lys
 325 330 335
 Leu Lys Glu Lys Asp Arg Glu Leu Glu Ile Lys Asn Ile Tyr Ser His
 340 345 350
 Arg Ile Leu Lys Asn Leu His Asp Thr Glu Asp Tyr Pro Lys Val Ser
 355 360 365
 Ser Thr Lys Ser Val Gln Ala Asp Arg Lys Ile Leu Pro Phe Thr Ser
 370 375 380
 Met Arg His Gln Gly Thr Gln Lys Ser Asp Val Pro Pro Leu Thr Thr
 385 390 395 400

Lys Gly Lys Lys Ala Thr Gly Asn Ile Asp His Lys Glu Lys Ser Thr
 405 410 415
 Glu Ile Asn His Glu Ile Pro His Cys Val Asn Lys Leu Pro Lys Gln
 420 425 430
 Glu Asp Ser Lys Arg Lys Tyr Glu Asp Leu Ser Gly Glu Glu Lys His
 435 440 445
 Leu Glu Val Gln Ile Leu Leu Glu Asn Thr Gly Arg Gln Lys Asp Lys
 450 455 460
 Lys Glu Asp Gln Glu Lys Lys Asn Ile Phe Val Lys Glu Glu Gln Glu
 465 470 475 480
 Leu Pro Pro Lys Ile Ile Glu Val Ile His Pro Glu Arg Glu Ser Asn
 485 490 495
 Gln Glu Asp Val Leu Val Arg Glu Lys Phe Lys Arg Ser Met Gln Arg
 500 505 510
 Asn Gly Val Asp Asp Thr Leu Gly Lys Gly Thr Ala Pro Tyr Thr Lys
 515 520 525
 Gly Pro Leu Arg Gln Arg Arg His Tyr Ser Phe Thr Glu Ala Thr Glu
 530 535 540
 Asn Leu His His Gly Leu Pro Ala Ser Gly Gly Pro Ala Asn Ala Gly
 545 550 555 560
 Asn Met Arg Tyr Ser His Ser Thr Gly Lys His Leu Ser Asn Arg Glu
 565 570 575
 Glu Met Glu Leu Glu His Ser Asp Ser Gly Tyr Glu Pro Ser Phe Gly
 580 585 590
 Lys Ser Ser Arg Ile Lys Val Lys Asp Thr Thr Phe Arg Asp Lys Lys
 595 600 605
 Ser Ser Leu Met Glu Glu Leu Phe Gly Ser Gly Tyr Val Leu Lys Thr
 610 615 620
 Asp Gln Ser Ser Pro Gly Val Ala Lys Gly Ser Glu Glu Pro Leu Gln
 625 630 635 640
 Ser Lys Glu Ser His Pro Leu Pro Pro Ser Gln Ala Ser Thr Ser His
 645 650 655
 Ala Phe Gly Asp Ser Lys Val Thr Val Val Asn Ser Ile Lys Pro Ser
 660 665 670
 Ser Pro Thr Glu Gly Lys Arg Lys Ile Ile Ile
 675 680 683

<210> 2191

<211> 956

<212> PRT

<213> Homo sapiens

<400> 2191

Ser Ser Arg Thr Arg Glu Met Glu Glu Lys Glu Ile Leu Arg Arg Gln
 1 5 10 15
 Ile Arg Leu Leu Gln Gly Leu Ile Asp Asp Tyr Lys Thr Leu His Gly
 20 25 30
 Asn Ala Pro Ala Pro Gly Thr Pro Ala Ala Ser Gly Trp Gln Pro Pro
 35 40 45
 Thr Tyr His Ser Gly Arg Ala Phe Ser Ala Arg Tyr Pro Arg Pro Ser
 50 55 60
 Arg Arg Gly Tyr Ser Ser His His Gly Pro Ser Trp Arg Lys Lys Tyr
 65 70 75 80
 Ser Leu Val Asn Arg Pro Pro Gly Pro Ser Asp Pro Pro Ala Asp His
 85 90 95
 Ala Val Arg Pro Leu His Gly Ala Arg Gly Gly Gln Pro Pro Val Pro
 100 105 110
 Gln Gln His Val Leu Glu Arg Gln Val Gln Leu Ser Gln Gly Gln Asn
 115 120 125
 Val Val Ile Lys Val Lys Pro Pro Ser Lys Ser Gly Ser Ala Ser Ala
 130 135 140

Ser Gly Ala Gln Arg Gly Ser Leu Glu Glu Phe Glu Asp Thr Pro Trp
 145 150 155 160
 Ser Asp Gln Arg Pro Arg Glu Gly Glu Gly Glu Pro Pro Arg Gly Gln
 165 170 175
 Leu Gln Pro Ser Arg Pro Thr Arg Ala Arg Gly Thr Cys Ser Val Glu
 180 185 190
 Asp Pro Leu Leu Val Cys Gln Lys Glu Pro Gly Lys Pro Arg Met Val
 195 200 205
 Lys Ser Val Gly Ser Val Gly Asp Ser Pro Arg Glu Pro Arg Arg Thr
 210 215 220
 Val Ser Glu Ser Val Ile Ala Val Lys Ala Ser Phe Pro Ser Ser Ala
 225 230 235 240
 Leu Pro Pro Arg Thr Gly Val Ala Leu Gly Arg Lys Leu Gly Ser His
 245 250 255
 Ser Val Ala Ser Cys Ala Pro Gln Leu Leu Gly Asp Arg Arg Val Asp
 260 265 270
 Ala Gly His Thr Asp Gln Pro Val Pro Ser Gly Ser Val Gly Gly Pro
 275 280 285
 Ala Arg Pro Ala Ser Gly Pro Arg Gln Ala Arg Glu Ala Ser Leu Val
 290 295 300
 Val Thr Cys Arg Thr Asn Lys Phe Arg Lys Asn Asn Tyr Lys Trp Val
 305 310 315 320
 Ala Ala Ser Ser Lys Ser Pro Arg Val Ala Arg Arg Ala Leu Ser Pro
 325 330 335
 Arg Val Ala Ala Glu Asn Val Cys Lys Ala Ser Ala Gly Met Ala Asn
 340 345 350
 Lys Val Glu Lys Pro Gln Leu Ile Ala Asp Pro Glu Pro Lys Pro Arg
 355 360 365
 Lys Pro Ala Thr Ser Ser Lys Pro Gly Ser Ala Pro Ser Lys Tyr Lys
 370 375 380
 Trp Lys Ala Ser Ser Pro Ser Ala Ser Ser Ser Ser Phe Arg Trp
 385 390 395 400
 Gln Ser Glu Ala Gly Ser Lys Asp His Ala Ser Gln Leu Ser Pro Val
 405 410 415
 Leu Ser Arg Ser Pro Ser Gly Asp Arg Pro Ala Leu Ala His Ser Gly
 420 425 430
 Leu Lys Pro Leu Ser Gly Glu Thr Pro Leu Ser Ala Tyr Lys Val Lys
 435 440 445
 Thr Arg Thr Lys Ile Ile Arg Arg Arg Gly Ser Thr Ser Leu Pro Gly
 450 455 460
 Asp Lys Lys Ser Gly Thr Ser Pro Ala Ala Thr Ala Lys Ser His Leu
 465 470 475 480
 Ser Leu Arg Arg Arg Gln Ala Leu Arg Gly Lys Ser Ser Pro Val Leu
 485 490 495
 Lys Lys Thr Pro Asn Lys Gly Leu Val Gln Val Thr Lys His Arg Leu
 500 505 510
 Cys Arg Leu Pro Pro Ser Arg Ala His Leu Pro Thr Lys Glu Ala Ser
 515 520 525
 Ser Leu His Ala Val Arg Thr Ala Pro Thr Ser Lys Val Ile Lys Thr
 530 535 540
 Arg Tyr Arg Ile Val Lys Lys Thr Pro Ala Ser Pro Leu Ser Ala Pro
 545 550 555 560
 Pro Phe Pro Leu Ser Leu Pro Ser Trp Arg Ala Arg Arg Leu Ser Leu
 565 570 575
 Ser Arg Ser Leu Val Leu Asn Arg Leu Arg Pro Val Ala Ser Gly Gly
 580 585 590
 Gly Lys Ala Gln Pro Gly Ser Pro Trp Trp Arg Ser Lys Gly Tyr Arg
 595 600 605
 Cys Ile Gly Gly Val Leu Tyr Lys Val Ser Ala Asn Lys Leu Ser Lys
 610 615 620
 Thr Ser Gly Gln Pro Ser Asp Ala Gly Ser Arg Pro Leu Leu Arg Thr
 625 630 635 640
 Gly Arg Leu Asp Pro Ala Gly Ser Cys Ser Arg Ser Leu Ala Ser Arg
 645 650 655

Ala Val Gln Arg Ser Leu Ala Ile Ile Arg Gln Ala Arg Gln Arg Arg
 660 665 670
 Glu Lys Arg Lys Glu Tyr Cys Met Tyr Tyr Asn Arg Phe Gly Arg Cys
 675 680 685
 Asn Arg Gly Glu Arg Cys Pro Tyr Ile His Asp Pro Glu Lys Val Ala
 690 695 700
 Val Cys Thr Arg Phe Val Arg Gly Thr Cys Lys Lys Thr Asp Gly Thr
 705 710 715 720
 Cys Pro Phe Ser His His Val Ser Lys Glu Lys Met Pro Val Cys Ser
 725 730 735
 Tyr Phe Leu Lys Gly Ile Cys Ser Asn Ser Asn Cys Pro Tyr Ser His
 740 745 750
 Val Tyr Val Ser Arg Lys Ala Glu Val Cys Ser Asp Phe Leu Lys Gly
 755 760 765
 Tyr Cys Pro Leu Gly Ala Lys Cys Lys Lys Lys His Thr Leu Leu Cys
 770 775 780
 Pro Asp Phe Ala Arg Arg Gly Ala Cys Pro Arg Gly Ala Gln Cys Gln
 785 790 795 800
 Leu Leu His Arg Thr Gln Lys Arg His Ser Arg Arg Ala Ala Thr Ser
 805 810 815
 Pro Ala Pro Gly Pro Ser Asp Ala Thr Ala Arg Ser Arg Val Ser Ala
 820 825 830
 Ser His Gly Pro Arg Lys Pro Ser Ala Ser Gln Arg Pro Thr Arg Gln
 835 840 845
 Thr Pro Ser Ser Ala Ala Leu Thr Ala Ala Val Ala Ala Pro Pro
 850 855 860
 His Cys Pro Gly Gly Ser Ala Ser Pro Ser Ser Lys Ala Ser Ser
 865 870 875 880
 Ser Ser Ser Ser Ser Ser Pro Pro Ala Ser Leu Asp His Glu Ala
 885 890 895
 Pro Ser Leu Gln Glu Ala Ala Leu Ala Ala Cys Ser Asn Arg Leu
 900 905 910
 Cys Lys Leu Pro Ser Phe Ile Ser Leu Gln Ser Ser Pro Ser Pro Gly
 915 920 925
 Ala Gln Pro Arg Val Arg Ala Pro Arg Ala Pro Leu Thr Lys Asp Ser
 930 935 940
 Gly Lys Pro Leu His Ile Lys Pro Arg Leu
 945 950 954

<210> 2192

<211> 523

<212> PRT

<213> Homo sapiens

<400> 2192

Trp Pro Asp Leu Val His Thr Trp Ser Ser Glu Glu Ala Met Gly Ser
 1 5 10 15
 Cys Cys Ser Cys Pro Asp Lys Asp Thr Val Pro Asp Asn His Arg Asn
 20 25 30
 Lys Phe Lys Val Ile Asn Val Asp Asp Gly Asn Glu Leu Gly Ser
 35 40 45
 Gly Ile Met Glu Leu Thr Asp Thr Glu Leu Ile Leu Tyr Thr Arg Lys
 50 55 60
 Arg Asp Ser Val Lys Trp His Tyr Leu Cys Leu Arg Arg Tyr Gly Tyr
 65 70 75 80
 Asp Ser Asn Leu Phe Ser Phe Glu Ser Gly Arg Arg Cys Gln Thr Gly
 85 90 95
 Gln Gly Ile Phe Ala Phe Lys Cys Ala Arg Ala Glu Glu Leu Phe Asn
 100 105 110
 Met Leu Gln Glu Ile Met Gln Asn Ser Ile Asn Val Val Glu Glu
 115 120 125

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Pro Val Val Glu Arg Asn Asn His Gln Thr Glu Leu Glu Val Pro Arg
130 135 140
Thr Pro Arg Thr Pro Thr Thr Pro Gly Phe Ala Ala Gln Asn Leu Pro
145 150 155 160
Asn Gly Tyr Pro Arg Tyr Pro Ser Phe Gly Asp Ala Ser Ser His Pro
165 170 175
Ser Ser Arg His Pro Ser Val Gly Ser Ala Arg Leu Pro Ser Val Gly
180 185 190
Glu Glu Ser Thr His Pro Leu Leu Val Ala Glu Glu Gln Val His Thr
195 200 205
Tyr Val Asn Thr Thr Gly Val Gln Glu Glu Arg Lys Asn Arg Thr Ser
210 215 220
Val His Val Pro Leu Glu Ala Arg Val Ser Asn Ala Glu Ser Ser Thr
225 230 235 240
Pro Lys Glu Glu Pro Ser Ser Ile Glu Asp Arg Asp Pro Gln Ile Leu
245 250 255
Leu Glu Pro Glu Gly Val Lys Phe Val Leu Gly Pro Thr Pro Val Gln
260 265 270
Lys Gln Leu Met Glu Lys Glu Lys Leu Glu Gln Leu Gly Arg Asp Gln
275 280 285
Val Ser Gly Ser Gly Ala Asn Asn Thr Glu Trp Asp Thr Gly Tyr Asp
290 295 300
Ser Asp Glu Arg Arg Asp Ala Pro Ser Val Asn Lys Leu Val Tyr Glu
305 310 315 320
Asn Ile Asn Gly Leu Ser Ile Pro Ser Ala Ser Gly Val Arg Arg Gly
325 330 335
Arg Leu Thr Ser Thr Ser Thr Ser Asp Thr Gln Asn Ile Asn Asn Ser
340 345 350
Ala Gln Arg Arg Thr Ala Leu Leu Asn Tyr Glu Asn Leu Pro Ser Leu
355 360 365
Pro Pro Val Trp Glu Ala Arg Lys Leu Ser Arg Asp Glu Asp Asp Asn
370 375 380
Leu Gly Pro Lys Thr Pro Ser Leu Asn Gly Tyr His Asn Asn Leu Asp
385 390 395 400
Pro Met His Asn Tyr Val Asn Thr Glu Asn Val Thr Val Pro Ala Ser
405 410 415
Ala His Lys Ile Glu Tyr Ser Arg Arg Arg Asp Cys Thr Pro Thr Val
420 425 430
Phe Asn Phe Asp Ile Arg Arg Pro Ser Leu Glu His Arg Gln Leu Asn
435 440 445
Tyr Ile Gln Val Asp Leu Glu Gly Ser Asp Ser Asp Asn Pro Gln
450 455 460
Thr Pro Lys Thr Pro Thr Thr Pro Leu Pro Gln Thr Pro Thr Arg Arg
465 470 475 480
Thr Glu Leu Tyr Ala Val Ile Asp Ile Glu Arg Thr Ala Ala Met Ser
485 490 495
Asn Leu Gln Lys Ala Leu Pro Arg Asp Asp Gly Thr Ser Arg Lys Thr
500 505 510
Arg His Asn Ser Thr Asp Leu Pro Leu
515 520 521

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<210> 2193
<211> 224
<212> PRT
<213> Homo sapiens

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```

<400> 2193
Ala Gly Arg Pro Gly Thr Thr His Ala Ser Gly Lys Met Ala Tyr Gln
1 5 10 15
Ser Leu Arg Leu Glu Tyr Leu Gln Ile Pro Pro Val Ser Arg Ala Tyr
20 25 30

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Thr Thr Ala Cys Val Leu Thr Thr Ala Ala Val Gln Leu Glu Leu Ile
    35          40          45
Thr Pro Phe Gln Leu Tyr Phe Asn Pro Glu Leu Ile Phe Lys His Phe
    50          55          60
Gln Ile Trp Arg Leu Ile Thr Asn Phe Leu Phe Phe Gly Pro Val Gly
    65          70          75          80
Phe Asn Phe Leu Phe Asn Met Ile Phe Leu Tyr Arg Tyr Cys Arg Met
    85          90          95
Leu Glu Glu Gly Ser Phe Arg Gly Arg Thr Ala Asp Phe Val Phe Met
    100          105          110
Phe Leu Phe Gly Gly Phe Leu Met Thr Leu Phe Gly Leu Phe Val Ser
    115          120          125
Leu Val Phe Leu Gly Pro Gly Leu Tyr Asn Asn Gly Ser Ser Met Cys
    130          135          140
Gly Ala Glu Glu Pro Leu Cys Pro His Glu Leu Leu Arg Pro Ser Gln
    145          150          155          160
Leu Pro Gly Pro Leu Ser Ala Leu Gly Ala His Gly Ile Phe Leu Val
    165          170          175
Val Gly Glu Leu Asn His Cys Gly Pro Phe Gly Tyr Cys Ser Trp Thr
    180          185          190
His Ile Phe Phe Leu Gly Arg Cys Ile Ser Gln Ser Thr Trp Trp Asn
    195          200          205
Lys Asn Ser Glu Asn Thr Ile Tyr Phe Glu Ser Tyr Phe
    210          215          220 221

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<210> 2194
 <211> 129
 <212> PRT
 <213> Homo sapiens

```

<400> 2194
His Arg Leu Cys Met Pro Ile Gln Gly Ala Cys Gly Glu Arg Met Glu
  1          5          10          15
Phe Ser Leu Leu Leu Pro Gly Leu Glu Cys Asn Gly Val Ile Leu Ala
    20          25          30
His Cys Asn Leu Arg Leu Pro Gly Ser Ser Asn Ser Pro Ala Ser Ala
    35          40          45
Ser Gln Val Ala Gly Ile Thr Gly Val Cys His His Ala Arg Leu Ile
    50          55          60
Phe Val Phe Ser Val Glu Thr Gly Phe Leu His Ala Gly Gln Ala Gly
    65          70          75          80
Leu Glu Leu Leu Thr Ser Gly Asp Pro Pro Ala Ser Ala Ser Gln Ser
    85          90          95
Ala Gly Ile Thr Gly Lys Ser Gln His Thr Arg Pro Gly Tyr Glu Phe
    100          105          110
Ile Ile Pro Tyr Ser Ala Ala Gln Glu Asp Ala Leu Lys Ala Leu Met
    115          120          125          128

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<210> 2195
 <211> 452
 <212> PRT
 <213> Homo sapiens

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<400> 2195
Leu Tyr Pro Glu Asn Leu Gly Glu Ser Leu Phe Pro Ile Leu Leu Leu
  1          5          10          15

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Pro Pro Pro Trp Pro Asp Gly Gly Arg Pro Cys Cys Val Glu Met Ser
      20      25      30
Thr Arg Ala Lys Lys Leu Arg Arg Ile Trp Arg Ile Leu Glu Glu Lys
      35      40      45
Glu Ser Val Ala Gly Ala Val Gln Thr Leu Leu Leu Arg Ser Gln Glu
      50      55      60
Gly Gly Val Thr Ser Ala Ala Ser Thr Leu Ser Glu Pro Pro Arg
      65      70      75      80
Arg Thr Gln Glu Ser Arg Thr Arg Thr Arg Ala Leu Gly Leu Pro Thr
      85      90      95
Leu Pro Met Glu Lys Leu Ala Ala Ser Thr Glu Pro Gln Gly Pro Arg
      100      105      110
Pro Val Leu Gly Arg Glu Ser Val Gln Val Pro Asp Asp Gln Asp Phe
      115      120      125
Arg Ser Phe Arg Ser Glu Cys Glu Ala Glu Val Gly Trp Asn Leu Thr
      130      135      140
Tyr Ser Arg Ala Gly Val Ser Val Trp Val Gln Ala Val Glu Met Asp
      145      150      155      160
Arg Thr Leu His Lys Ile Lys Cys Arg Met Glu Cys Cys Asp Val Pro
      165      170      175
Ala Glu Thr Leu Tyr Asp Val Leu His Asp Ile Glu Tyr Arg Lys Lys
      180      185      190
Trp Asp Ser Asn Val Ile Glu Thr Phe Asp Ile Ala Arg Leu Thr Val
      195      200      205
Asn Ala Asp Val Gly Tyr Tyr Ser Trp Arg Cys Pro Lys Pro Leu Lys
      210      215      220
Asn Arg Asp Val Ile Thr Leu Arg Ser Trp Leu Pro Met Gly Ala Asp
      225      230      235      240
Tyr Ile Ile Met Asn Tyr Ser Val Lys His Pro Lys Tyr Pro Pro Arg
      245      250      255
Lys Asp Leu Val Arg Ala Val Ser Ile Gln Thr Gly Tyr Leu Ile Gln
      260      265      270
Ser Thr Gly Pro Lys Ser Cys Val Ile Thr Tyr Leu Ala Gln Val Asp
      275      280      285
Pro Lys Gly Ser Leu Pro Lys Trp Val Val Asn Lys Ser Ser Gln Phe
      290      295      300
Leu Ala Pro Lys Ala Met Lys Lys Met Tyr Lys Ala Cys Leu Lys Tyr
      305      310      315      320
Pro Glu Trp Lys Gln Lys His Leu Pro His Phe Lys Pro Trp Leu His
      325      330      335
Pro Glu Gln Ser Pro Leu Pro Ser Leu Ala Leu Ser Glu Leu Ser Val
      340      345      350
Gln His Ala Asp Ser Leu Glu Asn Ile Asp Glu Ser Ala Val Ala Glu
      355      360      365
Ser Arg Glu Glu Arg Met Gly Gly Ala Gly Gly Glu Gly Ser Asp Asp
      370      375      380
Asp Thr Ser Leu Tyr Ala Glu Ala Pro His Arg Phe Arg Glu Thr Glu
      385      390      395      400
Thr Gly Pro Gly Ala Gly Arg Ala Leu Gly Ala Ala Ala Pro Ala
      405      410      415
Leu Ser Pro Leu His Pro Pro Gly Thr Trp Trp His Arg Ala Arg Pro
      420      425      430
Arg Arg Val Leu Gln Pro Gly Trp Thr Glu Pro Gln
      435      440      444

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<210> 2196
 <211> 879
 <212> PRT
 <213> Homo sapiens

<400> 2196

Arg	Arg	Lys	Met	Ala	Gly	Cys	Arg	Gly	Ser	Leu	Cys	Cys	Cys	Cys	Arg
1				5					10					15	
Trp	Cys	Cys	Cys	Cys	Gly	Glu	Arg	Glu	Thr	Arg	Thr	Pro	Glu	Glu	Leu
			20					25				30			
Thr	Ile	Leu	Gly	Glu	Thr	Gln	Glu	Glu	Glu	Asp	Glu	Ile	Leu	Pro	Arg
		35					40					45			
Lys	Asp	Tyr	Glu	Ser	Leu	Asp	Tyr	Asp	Arg	Cys	Ile	Asn	Asp	Pro	Tyr
	50					55					60				
Leu	Glu	Val	Leu	Glu	Thr	Met	Asp	Asn	Lys	Lys	Gly	Arg	Arg	Tyr	Glu
	65				70					75				80	
Ala	Val	Lys	Trp	Met	Val	Val	Phe	Ala	Ile	Gly	Val	Cys	Thr	Gly	Leu
				85					90					95	
Val	Gly	Leu	Phe	Val	Asp	Phe	Phe	Val	Arg	Leu	Phe	Thr	Gln	Leu	Lys
			100					105					110		
Phe	Gly	Val	Val	Gln	Thr	Ser	Val	Glu	Glu	Cys	Ser	Gln	Lys	Gly	Cys
	115						120					125			
Leu	Ala	Leu	Ser	Leu	Leu	Glu	Leu	Leu	Gly	Phe	Asn	Leu	Thr	Phe	Val
	130					135					140				
Phe	Leu	Glu	Ser	Leu	Leu	Gly	Leu	Ile	Glu	Pro	Val	Glu	Ala	Gly	Ser
	145					150				155				160	
Gly	Ile	Thr	Glu	Gly	Lys	Cys	Tyr	Leu	Tyr	Ala	Arg	Gln	Val	Pro	Gly
				165					170					175	
Leu	Val	Arg	Leu	Pro	Thr	Leu	Leu	Trp	Lys	Ala	Leu	Gly	Val	Leu	Leu
			180					185					190		
Thr	Val	Ala	Ala	Met	Leu	Leu	Ile	Gly	Leu	Gly	Ser	Pro	Met	Ile	His
	195						200					205			
Ser	Gly	Ser	Val	Val	Gly	Ala	Gly	Leu	Pro	Gln	Phe	Gln	Ser	Ile	Ser
	210					215					220				
Leu	Arg	Lys	Ile	Gln	Phe	Asn	Phe	Pro	Tyr	Phe	Arg	Ser	Asp	Arg	Tyr
	225				230					235				240	
Gly	Lys	Asp	Lys	Arg	Asp	Phe	Val	Ser	Ala	Gly	Ala	Ala	Ala	Gly	Val
				245					250					255	
Ala	Ala	Ala	Phe	Gly	Ala	Pro	Ile	Gly	Gly	Thr	Leu	Phe	Ser	Leu	Glu
			260					265					270		
Glu	Gly	Ser	Ser	Phe	Trp	Asn	Gln	Gly	Leu	Thr	Trp	Lys	Val	Leu	Phe
	275					280						285			
Cys	Ser	Met	Ser	Ala	Thr	Phe	Thr	Leu	Asn	Phe	Phe	Arg	Ser	Gly	Ile
	290					295					300				
Gln	Phe	Gly	Ser	Trp	Gly	Ser	Phe	Gln	Leu	Pro	Gly	Leu	Leu	Asn	Phe
	305				310					315				320	
Gly	Glu	Phe	Lys	Cys	Ser	Asp	Ser	Asp	Lys	Lys	Cys	His	Leu	Trp	Thr
				325					330					335	
Ala	Met	Asp	Leu	Gly	Phe	Phe	Val	Val	Met	Gly	Val	Ile	Gly	Gly	Leu
			340					345					350		
Leu	Gly	Ala	Thr	Phe	Asn	Cys	Leu	Asn	Lys	Arg	Leu	Ala	Lys	Tyr	Arg
	355					360						365			
Met	Arg	Asn	Val	His	Pro	Lys	Pro	Lys	Leu	Val	Arg	Val	Leu	Glu	Ser
	370					375					380				
Leu	Leu	Val	Ser	Leu	Val	Thr	Thr	Val	Val	Val	Phe	Val	Ala	Ser	Met
	385				390					395				400	
Val	Leu	Gly	Glu	Cys	Arg	Gln	Met	Ser	Ser	Ser	Ser	Gln	Ile	Gly	Asn
				405					410					415	
Asp	Ser	Phe	Gln	Leu	Gln	Val	Thr	Glu	Asp	Val	Asn	Ser	Ser	Ile	Lys
			420					425					430		
Thr	Phe	Phe	Cys	Pro	Asn	Asp	Thr	Tyr	Asn	Asp	Met	Ala	Thr	Leu	Phe
	435						440					445			
Phe	Asn	Pro	Gln	Glu	Ser	Ala	Ile	Leu	Gln	Leu	Phe	His	Gln	Asp	Gly
	450					455					460				
Thr	Phe	Ser	Pro	Val	Thr	Leu	Ala	Leu	Phe	Phe	Val	Leu	Tyr	Phe	Leu
	465				470					475				480	
Leu	Ala	Cys	Trp	Thr	Tyr	Gly	Ile	Ser	Val	Pro	Ser	Gly	Leu	Phe	Val
				485					490					495	
Pro	Ser	Leu	Leu	Cys	Gly	Ala	Ala	Phe	Gly	Arg	Leu	Val	Ala	Asn	Val
			500					505					510		

Leu Lys Ser Tyr Ile Gly Leu Gly His Ile Tyr Ser Gly Thr Phe Ala
 515 520 525
 Leu Ile Gly Ala Ala Ala Phe Leu Gly Gly Val Val Arg Met Thr Ile
 530 535 540
 Ser Leu Thr Val Ile Leu Ile Glu Ser Thr Asn Glu Ile Thr Tyr Gly
 545 550 555 560
 Leu Pro Ile Met Val Thr Leu Met Val Gly Lys Trp Thr Gly Asp Phe
 565 570 575
 Phe Asn Lys Gly Ile Tyr Asp Ile His Val Gly Leu Arg Gly Val Pro
 580 585 590
 Leu Leu Glu Trp Glu Thr Glu Val Glu Met Asp Lys Leu Arg Ala Ser
 595 600 605
 Asp Ile Met Glu Pro Asn Leu Thr Tyr Val Tyr Pro His Thr Arg Ile
 610 615 620
 Gln Ser Leu Val Ser Ile Leu Arg Thr Thr Val His His Ala Phe Pro
 625 630 635 640
 Val Val Thr Glu Asn Arg Gly Asn Glu Lys Glu Phe Met Lys Gly Asn
 645 650 655
 Gln Leu Ile Ser Asn Asn Ile Lys Phe Lys Lys Ser Ser Ile Leu Thr
 660 665 670
 Arg Ala Gly Glu Gln Arg Lys Arg Ser Gln Ser Met Lys Ser Tyr Pro
 675 680 685
 Ser Ser Glu Leu Arg Asn Met Cys Asp Glu His Ile Ala Ser Glu Glu
 690 695 700
 Pro Ala Glu Lys Glu Asp Leu Leu Gln Gln Met Leu Glu Arg Arg Tyr
 705 710 715 720
 Thr Pro Tyr Pro Asn Leu Tyr Pro Asp Gln Ser Pro Ser Glu Asp Trp
 725 730 735
 Thr Met Glu Glu Arg Phe Arg Pro Leu Thr Phe His Gly Leu Ile Leu
 740 745 750
 Arg Ser Gln Leu Val Thr Leu Leu Val Arg Gly Val Cys Tyr Ser Glu
 755 760 765
 Ser Gln Ser Ser Ala Ser Gln Pro Arg Leu Ser Tyr Ala Glu Met Ala
 770 775 780
 Glu Asp Tyr Pro Arg Tyr Pro Asp Ile His Asp Leu Asp Leu Thr Leu
 785 790 795 800
 Leu Asn Pro Arg Met Ile Val Asp Val Thr Pro Tyr Met Asn Pro Ser
 805 810 815
 Pro Phe Thr Val Ser Pro Asn Thr His Val Ser Gln Val Phe Asn Leu
 820 825 830
 Phe Arg Thr Met Gly Leu Arg His Leu Pro Val Val Asn Ala Val Gly
 835 840 845
 Glu Ile Val Gly Ile Ile Thr Arg His Asn Leu Thr Tyr Glu Phe Leu
 850 855 860
 Gln Ala Arg Leu Arg Gln His Tyr Gln Thr Ile
 865 870 875

<210> 2197

<211> 664

<212> PRT

<213> Homo sapiens

<400> 2197

Asn Thr Asn Ser Ser Ser Val Thr Asn Ser Ala Ala Gly Val Glu Asp
 1 5 10 15
 Leu Asn Ile Val Gln Val Thr Val Pro Asp Asn Glu Lys Glu Arg Leu
 20 25 30
 Ser Ser Ile Glu Lys Ile Lys Gln Leu Arg Glu Gln Val Asn Asp Leu
 35 40 45
 Phe Ser Arg Lys Phe Gly Glu Ala Ile Gly Val Asp Phe Pro Val Lys
 50 55 60

Val	Pro	Tyr	Arg	Lys	Ile	Thr	Phe	Asn	Pro	Gly	Cys	Val	Val	Ile	Asp	65	70	75	80
Gly	Met	Pro	Pro	Gly	Val	Val	Phe	Lys	Ala	Pro	Gly	Tyr	Leu	Glu	Ile	85	90	95	
Ser	Ser	Met	Arg	Arg	Ile	Leu	Glu	Ala	Ala	Glu	Phe	Ile	Lys	Phe	Thr	100	105	110	
Val	Ile	Arg	Pro	Leu	Pro	Gly	Leu	Glu	Leu	Ser	Asn	Gly	Glu	Tyr	Ser	115	120	125	
Thr	Val	Gly	Lys	Arg	Lys	Ile	Asp	Gln	Glu	Gly	Arg	Val	Phe	Gln	Glu	130	135	140	
Lys	Trp	Glu	Arg	Ala	Tyr	Phe	Phe	Val	Glu	Val	Gln	Asn	Ile	Ser	Thr	145	150	155	160
Cys	Leu	Ile	Cys	Lys	Arg	Ser	Met	Ser	Val	Ser	Lys	Glu	Tyr	Asn	Leu	165	170	175	
Arg	Arg	His	Tyr	Gln	Thr	Asn	His	Ser	Lys	His	Tyr	Asp	Gln	Tyr	Met	180	185	190	
Glu	Arg	Met	Arg	Asp	Glu	Lys	Leu	His	Glu	Leu	Lys	Lys	Gly	Leu	Arg	195	200	205	
Lys	Tyr	Leu	Leu	Gly	Leu	Ser	Asp	Thr	Glu	Cys	Pro	Glu	Gln	Lys	Gln	210	215	220	
Val	Phe	Ala	Asn	Pro	Ser	Pro	Thr	Gln	Lys	Ser	Pro	Val	Gln	Pro	Val	225	230	235	240
Glu	Asp	Leu	Ala	Gly	Asn	Leu	Trp	Glu	Lys	Leu	Arg	Glu	Lys	Ile	Arg	245	250	255	
Ser	Phe	Val	Ala	Tyr	Ser	Ile	Ala	Ile	Asp	Glu	Ile	Thr	Asp	Ile	Asn	260	265	270	
Asn	Thr	Thr	Gln	Leu	Ala	Ile	Phe	Ile	Arg	Gly	Val	Asp	Glu	Asn	Phe	275	280	285	
Asp	Val	Ser	Glu	Glu	Leu	Leu	Asp	Thr	Val	Pro	Met	Thr	Gly	Thr	Lys	290	295	300	
Ser	Gly	Asn	Glu	Ile	Phe	Ser	Arg	Val	Glu	Lys	Ser	Leu	Lys	Asn	Phe	305	310	315	320
Cys	Ile	Asn	Trp	Ser	Lys	Leu	Val	Ser	Val	Ala	Ser	Thr	Gly	Thr	Pro	325	330	335	
Pro	Met	Val	Asp	Ala	Asn	Asn	Gly	Leu	Val	Thr	Lys	Leu	Lys	Ser	Arg	340	345	350	
Val	Ala	Thr	Phe	Cys	Lys	Gly	Ala	Glu	Leu	Lys	Ser	Ile	Cys	Cys	Ile	355	360	365	
Ile	His	Pro	Glu	Ser	Leu	Cys	Ala	Gln	Lys	Leu	Lys	Met	Asp	His	Val	370	375	380	
Met	Asp	Val	Val	Val	Lys	Ser	Val	Asn	Trp	Ile	Cys	Ser	Arg	Gly	Leu	385	390	395	400
Asn	His	Ser	Glu	Phe	Thr	Thr	Leu	Leu	Tyr	Glu	Leu	Asp	Ser	Gln	Tyr	405	410	415	
Gly	Ser	Leu	Leu	Tyr	Tyr	Thr	Glu	Ile	Lys	Trp	Leu	Ser	Arg	Gly	Leu	420	425	430	
Val	Leu	Lys	Arg	Phe	Phe	Glu	Ser	Leu	Glu	Glu	Ile	Asp	Ser	Phe	Met	435	440	445	
Ser	Ser	Arg	Gly	Lys	Pro	Leu	Pro	Gln	Leu	Ser	Ser	Ile	Asp	Trp	Ile	450	455	460	
Arg	Asp	Leu	Ala	Phe	Leu	Val	Asp	Met	Thr	Met	His	Leu	Asn	Ala	Leu	465	470	475	480
Asn	Ile	Ser	Leu	Gln	Gly	His	Ser	Gln	Ile	Val	Thr	Gln	Met	Tyr	Asp	485	490	495	
Leu	Ile	Arg	Ala	Phe	Leu	Ala	Lys	Leu	Cys	Leu	Trp	Glu	Thr	His	Leu	500	505	510	
Thr	Arg	Asn	Asn	Leu	Ala	His	Phe	Pro	Thr	Leu	Lys	Leu	Val	Ser	Arg	515	520	525	
Asn	Glu	Ser	Asp	Gly	Leu	Asn	Tyr	Ile	Pro	Lys	Ile	Ala	Glu	Leu	Lys	530	535	540	
Thr	Glu	Phe	Gln	Lys	Arg	Leu	Ser	Asp	Phe	Lys	Leu	Tyr	Glu	Ser	Glu	545	550	555	560
Leu	Thr	Leu	Phe	Ser	Ser	Pro	Phe	Ser	Thr	Lys	Ile	Asp	Ser	Val	His	565	570	575	

Glu Glu Leu Gln Met Glu Val Ile Asp Leu Gln Cys Asn Thr Val Leu
 580 585 590
 Lys Thr Lys Tyr Asp Lys Val Gly Ile Pro Glu Phe Tyr Lys Tyr Leu
 595 600 605
 Trp Gly Ser Tyr Pro Lys Tyr Lys His His Cys Ala Lys Ile Leu Ser
 610 615 620
 Met Phe Gly Ser Thr Tyr Ile Cys Glu Gln Leu Phe Ser Ile Met Lys
 625 630 635 640
 Leu Ser Lys Thr Lys Tyr Cys Ser Gln Leu Lys Asp Ser Gln Trp Asp
 645 650 655
 Ser Val Leu His Ile Ala Thr
 660 663

<210> 2198
 <211> 96
 <212> PRT
 <213> Homo sapiens

<400> 2198
 Ser Val Gln Tyr Leu Pro Gly Arg Pro Thr Arg Thr His Ala Ser Thr
 1 5 10 15
 Asp Ala Pro Leu Met Leu Lys Phe Thr Pro Leu Pro Ser Lys Thr Lys
 20 25 30
 Ala Ser Ala Pro Val Gln Cys Leu Leu Leu Met Ala Ala Thr Phe Ser
 35 40 45
 Pro Gln Gly Leu Ala Lys Pro His Ser Gly Thr Ile Pro Ile Thr Cys
 50 55 60
 Cys Phe Asn Ala Ile Asn Thr Lys Ile Pro Ile Gln Arg Leu Glu Ser
 65 70 75 80
 Tyr Thr Arg Ile Thr Asn Ile Gln Cys Pro Lys Glu Ala Val Met
 85 90 95

<210> 2199
 <211> 320
 <212> PRT
 <213> Homo sapiens

<400> 2199
 Leu Asp Phe Leu Cys His Arg Asp Met Gly Asp Asn Ile Thr Ser Ile
 1 5 10 15
 Thr Glu Phe Leu Leu Leu Gly Phe Pro Val Gly Pro Arg Ile Gln Met
 20 25 30
 Leu Leu Phe Gly Leu Phe Ser Leu Phe Tyr Val Phe Thr Leu Leu Gly
 35 40 45
 Asn Gly Thr Ile Leu Gly Leu Ile Ser Leu Asp Ser Arg Leu His Ala
 50 55 60
 Pro Met Tyr Phe Phe Leu Ser His Leu Ala Val Val Asp Ile Ala Tyr
 65 70 75 80
 Ala Cys Asn Thr Val Pro Arg Met Leu Val Asn Leu Leu His Pro Ala
 85 90 95
 Lys Pro Ile Ser Phe Ala Gly Arg Met Met Gln Thr Phe Leu Phe Ser
 100 105 110
 Thr Phe Ala Val Thr Glu Cys Leu Leu Leu Val Val Met Ser Tyr Asp
 115 120 125
 Leu Tyr Val Ala Ile Cys His Pro Leu Arg Tyr Leu Ala Ile Met Thr
 130 135 140
 Trp Arg Val Cys Ile Thr Leu Ala Val Thr Ser Trp Thr Thr Gly Val
 145 150 155 160

Leu Leu Ser Leu Ile His Leu Val Leu Leu Leu Pro Leu Pro Phe Cys
 165 170 175
 Arg Pro Gln Lys Ile Tyr His Phe Phe Cys Glu Ile Leu Ala Val Leu
 180 185 190
 Lys Leu Ala Cys Ala Asp Thr His Ile Asn Glu Asn Met Val Leu Ala
 195 200 205
 Gly Ala Ile Ser Gly Leu Val Gly Pro Leu Ser Thr Ile Val Val Ser
 210 215 220
 Tyr Met Cys Ile Leu Cys Ala Ile Leu Gln Ile Gln Ser Arg Glu Val
 225 230 235 240
 Gln Arg Lys Ala Phe Cys Thr Cys Phe Ser His Leu Cys Val Ile Gly
 245 250 255
 Leu Phe Tyr Gly Thr Ala Ile Ile Met Tyr Val Gly Pro Arg Tyr Gly
 260 265 270
 Asn Pro Lys Glu Gln Lys Lys Tyr Leu Leu Leu Phe His Ser Leu Phe
 275 280 285
 Asn Pro Met Leu Asn Pro Leu Ile Cys Ser Leu Arg Asn Ser Glu Val
 290 295 300
 Lys Asn Thr Leu Lys Arg Val Leu Gly Val Glu Arg Ala Leu
 305 310 315 318

<210> 2200
 <211> 339
 <212> PRT
 <213> Homo sapiens

<400> 2200
 Met Gly Asn Asp Ser Val Ser Tyr Glu Tyr Gly Asp Tyr Ser Asp Leu
 1 5 10 15
 Ser Asp Arg Pro Val Asp Cys Leu Asp Gly Ala Cys Leu Ala Ile Asp
 20 25 30
 Pro Leu Arg Val Ala Pro Leu Pro Leu Tyr Ala Ala Ile Phe Leu Val
 35 40 45
 Gly Val Pro Gly Asn Ala Met Val Ala Trp Val Ala Gly Lys Val Ala
 50 55 60
 Arg Arg Arg Val Gly Ala Thr Trp Leu Leu His Leu Ala Val Ala Asp
 65 70 75 80
 Leu Leu Cys Cys Leu Ser Leu Pro Ile Leu Ala Val Pro Ile Ala Arg
 85 90 95
 Gly Gly His Trp Pro Tyr Gly Ala Val Gly Cys Arg Ala Leu Pro Ser
 100 105 110
 Ile Ile Leu Leu Thr Met Tyr Ala Ser Val Leu Leu Leu Ala Ala Leu
 115 120 125
 Ser Ala Asp Leu Cys Phe Leu Ala Leu Gly Pro Ala Trp Cys Leu Arg
 130 135 140
 Phe Ser Gly Ala Cys Gly Val Gln Val Ala Cys Gly Ala Ala Trp Thr
 145 150 155 160
 Leu Ala Leu Leu Leu Thr Val Pro Ser Ala Ile Tyr Arg Arg Leu His
 165 170 175
 Gln Glu His Phe Pro Ala Arg Leu Gln Cys Val Val Asp Tyr Gly Gly
 180 185 190
 Ser Ser Ser Thr Glu Asn Ala Val Thr Ala Ile Arg Phe Leu Phe Gly
 195 200 205
 Phe Leu Gly Pro Leu Val Ala Val Ala Ser Cys His Ser Ala Leu Leu
 210 215 220
 Cys Trp Ala Ala Arg Arg Cys Arg Pro Leu Gly Thr Ala Ile Val Val
 225 230 235 240
 Gly Phe Phe Val Cys Trp Ala Pro Tyr His Leu Leu Gly Leu Val Leu
 245 250 255
 Thr Val Ala Ala Pro Asn Ser Ala Leu Leu Ala Arg Ala Leu Arg Ala
 260 265 270

Glu Pro Leu Ile Val Gly Leu Ala Leu Ala His Ser Cys Leu Asn Pro
 275 280 285
 Met Leu Phe Leu Tyr Phe Gly Arg Ala Gln Leu Arg Arg Ser Leu Pro
 290 295 300
 Ala Ala Cys His Trp Ala Leu Arg Glu Ser Gln Gly Gln Asp Glu Ser
 305 310 315 320
 Val Asp Ser Lys Lys Ser Thr Ser His Asp Leu Val Ser Glu Met Glu
 325 330 335
 Val
 337

<210> 2201
 <211> 770
 <212> PRT
 <213> Homo sapiens

<400> 2201
 Ala Ala Ala Ser Pro Leu Arg Met Ser Arg Lys Gly Pro Arg Ala Glu
 1 5 10 15
 Val Cys Ala Asp Cys Ser Ala Pro Asp Pro Gly Trp Ala Ser Ile Ser
 20 25 30
 Arg Gly Val Leu Val Cys Asp Glu Cys Cys Ser Val His Arg Ser Leu
 35 40 45
 Gly Arg His Ile Ser Ile Val Lys His Leu Arg His Ser Ala Trp Pro
 50 55 60
 Pro Thr Leu Leu Gln Met Val His Thr Leu Ala Ser Asn Gly Ala Asn
 65 70 75 80
 Ser Ile Trp Glu His Ser Leu Leu Asp Pro Ala Gln Val Gln Ser Gly
 85 90 95
 Pro Ala Leu Lys Gln Thr Pro Lys Asp Lys Val His Pro Ile Lys Ser
 100 105 110
 Glu Phe Ile Arg Ala Lys Tyr Gln Met Leu Ala Phe Val His Lys Leu
 115 120 125
 Pro Cys Arg Asp Asp Asp Gly Val Thr Ala Lys Asp Leu Ser Lys Gln
 130 135 140
 Leu His Ser Ser Val Arg Thr Gly Asn Leu Glu Thr Cys Leu Arg Leu
 145 150 155 160
 Leu Ser Leu Gly Ala Gln Ala Asn Phe Phe His Pro Glu Lys Gly Thr
 165 170 175
 Thr Pro Leu His Val Ala Ala Lys Ala Gly Gln Thr Leu Gln Ala Glu
 180 185 190
 Leu Leu Val Val Tyr Gly Ala Asp Pro Gly Ser Pro Asp Val Asn Gly
 195 200 205
 Arg Thr Pro Ile Asp Tyr Ala Arg Gln Ala Gly His His Glu Leu Ala
 210 215 220
 Glu Arg Leu Val Glu Cys Gln Tyr Glu Leu Thr Asp Arg Leu Ala Phe
 225 230 235 240
 Tyr Leu Cys Gly Arg Lys Pro Asp His Lys Asn Gly His Tyr Ile Ile
 245 250 255
 Pro Gln Met Ala Asp Ser Leu Asp Leu Ser Glu Leu Ala Lys Ala Ala
 260 265 270
 Lys Lys Lys Leu Gln Ala Leu Ser Asn Arg Leu Phe Glu Glu Leu Ala
 275 280 285
 Met Asp Val Tyr Asp Glu Val Asp Arg Arg Glu Asn Asp Ala Val Trp
 290 295 300
 Leu Ala Thr Gln Asn His Ser Thr Leu Val Thr Glu Arg Ser Ala Val
 305 310 315 320
 Pro Phe Leu Pro Val Asn Pro Glu Tyr Ser Ala Thr Arg Asn Gln Gly
 325 330 335
 Arg Gln Lys Leu Ala Arg Phe Asn Ala Arg Glu Phe Ala Thr Leu Ile
 340 345 350

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Ile Asp Ile Leu Ser Glu Ala Lys Arg Arg Gln Gln Gly Lys Ser Leu
  355          360          365
Ser Ser Pro Thr Asp Asn Leu Glu Leu Ser Leu Arg Ser Gln Ser Asp
  370          375          380
Leu Asp Asp Gln His Asp Tyr Asp Ser Val Ala Ser Asp Glu Asp Thr
  385          390          395          400
Asp Gln Glu Pro Leu Arg Ser Thr Gly Ala Thr Arg Ser Asn Arg Ala
  405          410          415
Arg Ser Met Asp Ser Ser Asp Leu Ser Asp Gly Ala Val Thr Leu Gln
  420          425          430
Glu Tyr Leu Glu Leu Lys Lys Ala Leu Ala Thr Ser Glu Ala Lys Val
  435          440          445
Gln Gln Leu Met Lys Val Asn Ser Ser Leu Ser Asp Glu Leu Arg Arg
  450          455          460
Leu Gln Arg Glu Ile His Lys Leu Gln Ala Glu Asn Leu Gln Leu Arg
  465          470          475          480
Gln Pro Pro Gly Pro Val Pro Thr Pro Pro Leu Pro Ser Glu Arg Ala
  485          490          495
Glu His Thr Pro Met Ala Pro Gly Gly Ser Thr His Arg Arg Asp Arg
  500          505          510
Gln Ala Phe Ser Met Tyr Glu Pro Gly Ser Ala Leu Lys Pro Phe Gly
  515          520          525
Gly Pro Pro Gly Asp Glu Leu Thr Thr Arg Leu Gln Pro Phe His Ser
  530          535          540
Thr Glu Leu Glu Asp Asp Ala Ile Tyr Ser Val His Val Pro Ala Gly
  545          550          555          560
Leu Tyr Arg Ile Arg Lys Gly Val Ser Ala Ser Ala Val Pro Phe Thr
  565          570          575
Pro Ser Ser Pro Leu Leu Ser Cys Ser Gln Glu Gly Ser Arg His Thr
  580          585          590
Ser Lys Leu Ser Arg His Gly Ser Gly Ala Asp Ser Asp Tyr Glu Asn
  595          600          605
Thr Gln Ser Gly Asp Pro Leu Leu Gly Leu Glu Gly Lys Arg Phe Leu
  610          615          620
Glu Leu Gly Lys Glu Glu Asp Phe His Pro Glu Leu Glu Ser Leu Asp
  625          630          635          640
Gly Asp Leu Asp Pro Gly Leu Pro Ser Thr Glu Asp Val Ile Leu Lys
  645          650          655
Thr Glu Gln Val Thr Lys Asn Ile Gln Glu Leu Leu Arg Ala Ala Gln
  660          665          670
Glu Phe Lys His Asp Ser Phe Val Pro Cys Ser Glu Lys Ile His Leu
  675          680          685
Ala Val Thr Glu Met Ala Ser Leu Phe Pro Lys Arg Pro Ala Leu Glu
  690          695          700
Pro Val Arg Ser Ser Leu Arg Leu Leu Asn Ala Ser Ala Tyr Arg Leu
  705          710          715          720
Gln Ser Glu Cys Arg Lys Thr Val Pro Pro Glu Pro Gly Ala Pro Val
  725          730          735
Asp Phe Gln Leu Leu Thr Gln Gln Val Ile Gln Cys Ala Tyr Asp Ile
  740          745          750
Ala Lys Ala Ala Lys Gln Leu Val Thr Ile Thr Thr Arg Glu Lys Lys
  755          760          765
Gln
769

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<210> 2202
<211> 432
<212> PRT
<213> Homo sapiens

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<400> 2202

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Arg Ile Ser Lys Ile Gln Val Tyr Tyr Ser Thr Gly Tyr Ser Ser Arg
 1           5           10           15
Lys Met Asn Pro Thr Leu Gly Leu Ala Ile Phe Leu Ala Val Leu Leu
      20           25           30
Thr Val Lys Gly Leu Leu Lys Pro Ser Phe Ser Pro Arg Asn Tyr Lys
      35           40           45
Ala Leu Ser Glu Val Gln Gly Trp Lys Gln Arg Met Ala Ala Lys Glu
      50           55           60
Leu Ala Arg Gln Asn Met Asp Leu Gly Phe Lys Leu Leu Lys Lys Leu
      65           70           75           80
Ala Phe Tyr Asn Pro Gly Arg Asn Ile Phe Leu Ser Pro Leu Ser Ile
      85           90           95
Ser Thr Ala Phe Ser Met Leu Cys Leu Gly Ala Gln Asp Ser Thr Leu
      100          105          110
Asp Glu Ile Lys Gln Gly Phe Asn Phe Arg Lys Met Pro Glu Lys Asp
      115          120          125
Leu His Glu Gly Phe His Tyr Ile Ile His Glu Leu Thr Gln Lys Thr
      130          135          140
Gln Asp Leu Lys Leu Ser Ile Gly Asn Thr Leu Phe Ile Asp Gln Arg
      145          150          155          160
Leu Gln Pro Gln Arg Lys Phe Leu Glu Asp Ala Lys Asn Phe Tyr Ser
      165          170          175
Ala Glu Thr Ile Leu Thr Asn Phe Gln Asn Leu Glu Met Ala Gln Lys
      180          185          190
Gln Ile Asn Asp Phe Ile Glu Ser Lys Thr His Gly Lys Ile Asn Asn
      195          200          205
Leu Ile Glu Asn Ile Asp Pro Gly Thr Val Met Leu Leu Ala Asn Tyr
      210          215          220
Ile Phe Phe Arg Ala Arg Trp Lys His Glu Phe Asp Pro Asn Val Thr
      225          230          235          240
Lys Glu Glu Asp Phe Phe Leu Glu Lys Asn Ser Ser Val Lys Val Pro
      245          250          255
Met Met Phe Arg Ser Gly Ile Tyr Gln Val Gly Tyr Asp Asp Lys Leu
      260          265          270
Ser Cys Thr Ile Leu Glu Ile Pro Tyr Gln Lys Asn Ile Thr Ala Ile
      275          280          285
Phe Ile Leu Pro Asp Glu Gly Lys Leu Lys His Leu Glu Lys Gly Leu
      290          295          300
Gln Val Asp Thr Phe Ser Arg Trp Lys Thr Leu Leu Ser Arg Arg Val
      305          310          315          320
Val Asp Val Ser Val Pro Arg Leu His Met Thr Gly Thr Phe Asp Leu
      325          330          335
Lys Lys Thr Leu Ser Tyr Ile Gly Val Ser Lys Ile Phe Glu Glu His
      340          345          350
Gly Asp Leu Thr Lys Ile Ala Pro His Arg Ser Leu Lys Val Gly Glu
      355          360          365
Ala Val Asn Lys Ala Glu Leu Lys Met Asp Glu Arg Gly Thr Glu Gly
      370          375          380
Ala Ala Gly Thr Gly Ala Gln Thr Leu Pro Met Glu Thr Pro Leu Val
      385          390          395          400
Val Lys Ile Asp Lys Pro Tyr Leu Leu Leu Ile Tyr Ser Glu Lys Ile
      405          410          415
Pro Ser Val Leu Phe Leu Gly Lys Ile Val Asn Pro Ile Gly Lys
      420          425          430          431

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<210> 2203
<211> 1098
<212> PRT
<213> Homo sapiens

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<400> 2203

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Met Thr His Ala Cys Asn Pro Ser Thr Leu Gly Gly Gln Gly Arg Arg
 1      5      10      15
Ile Thr Arg Ser His Gly Arg Arg Arg Ser Ser Arg Gly Pro Val Ala
 20      25      30
Arg His Val Ala Ala Gly Ala Gly His Glu Asn Lys His Gly Gly Ser
 35      40      45
Arg Arg Phe Pro Ala Gly Val Ala Pro Arg Arg Ala Met Ala Asn Val
 50      55      60
Ser Lys Lys Val Ser Trp Ser Gly Arg Asp Arg Asp Asp Glu Glu Ala
 65      70      75      80
Ala Pro Leu Leu Arg Arg Thr Ala Arg Pro Gly Gly Gly Thr Pro Leu
 85      90      95
Leu Asn Gly Ala Gly Pro Gly Ala Ala Arg Gln Ser Pro Arg Ser Ala
100      105      110
Leu Phe Arg Val Gly His Met Ser Ser Val Glu Leu Asp Asp Glu Leu
115      120      125
Leu Glu Pro Asp Met Asp Pro Pro His Pro Phe Pro Lys Glu Ile Pro
130      135      140
His Asn Glu Lys Leu Leu Ser Leu Lys Tyr Glu Ser Leu Asp Tyr Asp
145      150      155      160
Asn Ser Glu Asn Gln Leu Phe Leu Glu Glu Glu Arg Arg Ile Asn His
165      170      175
Thr Ala Phe Arg Thr Val Glu Ile Lys Arg Trp Val Ile Cys Ala Leu
180      185      190
Ile Gly Ile Leu Thr Gly Leu Val Ala Cys Phe Ile Asp Ile Val Val
195      200      205
Glu Asn Leu Ala Gly Leu Lys Tyr Arg Val Ile Lys Gly Ser Ile Leu
210      215      220
Pro Asn Ile Asp Lys Phe Thr Glu Lys Gly Gly Leu Ser Phe Ser Leu
225      230      235      240
Leu Leu Trp Ala Thr Leu Asn Ala Ala Phe Val Leu Val Gly Ser Val
245      250      255
Ile Val Ala Phe Ile Glu Pro Val Ala Ala Gly Ser Gly Ile Pro Gln
260      265      270
Ile Lys Cys Phe Leu Asn Gly Val Lys Ile Pro His Val Val Arg Leu
275      280      285
Lys Thr Leu Val Ile Lys Val Ser Gly Val Ile Leu Ser Val Val Gly
290      295      300
Gly Leu Ala Val Gly Lys Glu Gly Pro Met Ile His Ser Gly Ser Val
305      310      315      320
Ile Ala Ala Gly Ile Ser Gln Gly Arg Ser Thr Ser Leu Lys Arg Asp
325      330      335
Phe Lys Ile Phe Glu Tyr Phe Arg Arg Asp Thr Glu Lys Arg Asp Phe
340      345      350
Val Ser Ala Gly Ala Ala Ala Gly Val Ser Ala Ala Phe Gly Ala Pro
355      360      365
Val Gly Gly Val Leu Phe Ser Leu Glu Glu Gly Ala Ser Phe Trp Asn
370      375      380
Gln Phe Leu Thr Trp Arg Ile Phe Phe Ala Ser Met Ile Ser Thr Phe
385      390      395      400
Thr Leu Asn Phe Val Leu Ser Ile Tyr His Gly Asn Met Trp Asp Leu
405      410      415
Ser Ser Pro Gly Leu Ile Asn Phe Gly Arg Phe Asp Ser Glu Lys Met
420      425      430
Ala Tyr Thr Ile His Glu Ile Pro Val Phe Ile Ala Met Gly Val Val
435      440      445
Gly Gly Val Leu Gly Ala Val Phe Asn Ala Leu Asn Tyr Trp Leu Thr
450      455      460
Met Phe Arg Ile Arg Tyr Ile His Arg Pro Cys Leu Gln Val Ile Glu
465      470      475      480
Ala Val Leu Val Ala Ala Val Thr Ala Thr Val Ala Phe Val Leu Ile
485      490      495
Tyr Ser Ser Arg Asp Cys Gln Pro Leu Gln Gly Gly Ser Met Ser Tyr
500      505      510

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Pro Leu Gln Leu Phe Cys Ala Asp Gly Glu Tyr Asn Ser Met Ala Ala
 515 520 525
 Ala Phe Phe Asn Thr Pro Glu Lys Ser Val Val Ser Leu Phe His Asp
 530 535 540
 Pro Pro Gly Ser Tyr Asn Pro Leu Thr Leu Gly Leu Phe Thr Leu Val
 545 550 555 560
 Tyr Phe Phe Leu Ala Cys Trp Thr Tyr Gly Leu Thr Val Ser Ala Gly
 565 570 575
 Val Phe Ile Pro Ser Leu Leu Ile Gly Ala Ala Trp Gly Arg Leu Phe
 580 585 590
 Gly Ile Ser Leu Ser Tyr Leu Thr Gly Ala Ala Ile Trp Ala Asp Pro
 595 600 605
 Gly Lys Tyr Ala Leu Met Gly Ala Ala Ala Gln Leu Gly Gly Ile Val
 610 615 620
 Arg Met Thr Leu Ser Leu Thr Val Ile Met Met Glu Ala Thr Ser Asn
 625 630 635 640
 Val Thr Tyr Gly Phe Pro Ile Met Leu Val Leu Met Thr Ala Lys Ile
 645 650 655
 Val Gly Asp Val Phe Ile Glu Gly Leu Tyr Asp Met His Ile Gln Leu
 660 665 670
 Gln Ser Val Pro Phe Leu His Trp Glu Ala Pro Val Thr Ser His Ser
 675 680 685
 Leu Thr Ala Arg Glu Val Met Ser Thr Pro Val Thr Cys Leu Arg Arg
 690 695 700
 Arg Glu Lys Val Gly Val Ile Val Asp Val Leu Ser Asp Thr Ala Ser
 705 710 715 720
 Asn His Asn Gly Phe Pro Val Val Glu His Ala Asp Asp Thr Gln Pro
 725 730 735
 Ala Arg Leu Gln Gly Leu Ile Leu Arg Ser Gln Leu Ile Val Leu Leu
 740 745 750
 Lys His Lys Val Phe Val Glu Arg Ser Asn Leu Gly Leu Val Gln Arg
 755 760 765
 Arg Leu Arg Leu Lys Asp Phe Arg Asp Ala Tyr Pro Arg Phe Pro Pro
 770 775 780
 Ile Gln Ser Ile His Val Ser Gln Asp Glu Arg Glu Cys Thr Met Asp
 785 790 795 800
 Leu Ser Glu Phe Met Asn Pro Ser Pro Tyr Thr Val Pro Gln Glu Ala
 805 810 815
 Ser Leu Pro Arg Val Phe Lys Leu Phe Arg Ala Leu Gly Leu Arg His
 820 825 830
 Leu Val Val Val Asp Asn Arg Asn Gln Val Val Gly Leu Val Thr Arg
 835 840 845
 Lys Asp Leu Ala Arg Tyr Arg Leu Gly Lys Arg Gly Leu Glu Glu Leu
 850 855 860
 Ser Leu Ala Gln Thr Gly Pro Lys Ala Gln Ala Thr Ala Glu Gly Arg
 865 870 875 880
 Val Ala Gly Ala Ala Gln Gln Pro Cys Gln Leu Arg Ala Val Thr Leu
 885 890 895
 Glu Asp Leu Gly Leu Leu Leu Ala Gly Gly Leu Ala Ser Pro Glu Pro
 900 905 910
 Leu Ser Leu Glu Glu Leu Ser Glu Arg Tyr Glu Ser Ser His Pro Thr
 915 920 925
 Ser Thr Ala Ser Val Pro Glu Gln Asp Thr Ala Lys His Trp Asn Gln
 930 935 940
 Leu Glu Gln Trp Val Val Glu Leu Gln Ala Glu Val Ala Cys Leu Arg
 945 950 955 960
 Glu His Lys Gln Arg Cys Glu Arg Ala Thr Arg Ser Leu Leu Arg Glu
 965 970 975
 Leu Leu Gln Val Arg Ala Arg Val Gln Leu Gln Gly Ser Glu Leu Arg
 980 985 990
 Gln Leu Gln Gln Glu Ala Arg Pro Ala Ala Gln Ala Pro Glu Lys Glu
 995 1000 1005
 Ala Pro Glu Phe Ser Gly Leu Gln Asn Gln Met Gln Ala Leu Asp Lys
 1010 1015 1020

Arg Leu Val Glu Val Arg Glu Ala Leu Thr Arg Leu Arg Arg Arg Gln
 1025 1030 1035 1040
 Val Gln Gln Glu Ala Glu Arg Arg Gly Ala Glu Gln Glu Ala Gly Leu
 1045 1050 1055
 Arg Leu Ala Lys Leu Thr Asp Leu Leu Gln Gln Glu Glu Gln Gly Arg
 1060 1065 1070
 Glu Val Ala Cys Gly Ala Leu Gln Lys Asn Gln Glu Asp Ser Ser Arg
 1075 1080 1085
 Arg Val Asp Leu Glu Val Ala Arg Met
 1090 1095 1097

<210> 2204
 <211> 822
 <212> PRT
 <213> Homo sapiens

<400> 2204
 Ala Gly Thr Trp Glu Pro Arg Pro Tyr Asp Gln Ala Lys Glu Thr Gly
 1 5 10 15
 Ala Pro Gly Ser Gln Pro Pro Val Pro Pro Met Glu Leu Arg Pro Trp
 20 25 30
 Leu Leu Trp Val Val Ala Ala Thr Gly Thr Leu Val Leu Leu Ala Ala
 35 40 45
 Asp Ala Gln Gly Gln Lys Val Phe Thr Asn Thr Trp Ala Val Arg Ile
 50 55 60
 Pro Gly Gly Pro Ala Val Ala Asn Ser Val Ala Arg Lys His Gly Phe
 65 70 75 80
 Leu Asn Leu Gly Gln Ile Phe Gly Asp Tyr Tyr His Phe Trp His Arg
 85 90 95
 Gly Val Thr Lys Arg Ser Leu Ser Pro His Arg Pro Arg His Ser Arg
 100 105 110
 Leu Gln Arg Glu Pro Gln Val Gln Trp Leu Glu Gln Gln Val Ala Lys
 115 120 125
 Arg Arg Thr Lys Arg Asp Val Tyr Gln Glu Pro Thr Asp Pro Lys Phe
 130 135 140
 Pro Gln Gln Trp Tyr Leu Ser Gly Val Thr Gln Arg Asp Leu Met Val
 145 150 155 160
 Lys Ala Ala Trp Ala Gln Gly Tyr Thr Gly His Gly Ile Val Val Ser
 165 170 175
 Ile Leu Asp Asp Gly Ile Glu Lys Asn His Pro Asp Leu Ala Gly Asn
 180 185 190
 Tyr Asp Pro Gly Ala Ser Phe Asp Val Asn Asp Gln Asp Pro Asp Pro
 195 200 205
 Gln Pro Arg Tyr Thr Gln Met Asn Asp Asn Arg His Gly Thr Arg Cys
 210 215 220
 Ala Gly Glu Val Ala Ala Val Ala Asn Asn Gly Val Cys Gly Val Gly
 225 230 235 240
 Val Ala Tyr Asn Ala Arg Ile Gly Gly Val Arg Met Leu Asp Gly Glu
 245 250 255
 Val Thr Asp Ala Val Glu Ala Arg Ser Leu Gly Leu Asn Pro Asn His
 260 265 270
 Ile His Ile Tyr Ser Ala Ser Trp Gly Pro Glu Asp Asp Gly Lys Thr
 275 280 285
 Val Asp Gly Pro Ala Arg Leu Ala Glu Glu Ala Phe Phe Arg Gly Val
 290 295 300
 Ser Gln Gly Arg Gly Gly Leu Gly Ser Ile Phe Val Trp Ala Ser Gly
 305 310 315 320
 Asn Gly Gly Arg Glu His Asp Ser Cys Asn Cys Asp Gly Tyr Thr Asn
 325 330 335
 Ser Ile Tyr Thr Leu Ser Ile Ser Ser Ala Thr Gln Phe Gly Asn Val
 340 345 350

Pro Trp Tyr Ser Glu Ala Cys Ser Ser Thr Leu Ala Thr Thr Tyr Ser
 355 360 365
 Ser Gly Asn Gln Asn Glu Lys Gln Ile Val Thr Thr Asp Leu Arg Gln
 370 375 380
 Lys Cys Thr Glu Ser His Thr Gly Thr Ser Ala Ser Ala Pro Leu Ala
 385 390 395 400
 Ala Gly Ile Ile Ala Leu Thr Leu Glu Ala Asn Lys Asn Leu Thr Trp
 405 410 415
 Arg Asp Met Gln His Leu Val Val Gln Thr Ser Lys Pro Ala His Leu
 420 425 430
 Asn Ala Asn Asp Trp Ala Thr Asn Gly Val Gly Arg Lys Val Ser His
 435 440 445
 Ser Tyr Gly Tyr Gly Leu Leu Asp Ala Gly Ala Met Val Ala Leu Ala
 450 455 460
 Gln Asn Trp Thr Thr Val Ala Pro Gln Arg Lys Cys Ile Ile Asp Ile
 465 470 475 480
 Leu Thr Glu Pro Lys Asp Ile Gly Lys Arg Leu Glu Val Arg Lys Thr
 485 490 495
 Val Thr Ala Cys Leu Gly Glu Pro Asn His Ile Thr Arg Leu Glu His
 500 505 510
 Ala Gln Ala Arg Leu Thr Leu Ser Tyr Asn Arg Arg Gly Asp Leu Ala
 515 520 525
 Ile His Leu Val Ser Pro Met Gly Thr Arg Ser Thr Leu Leu Ala Ala
 530 535 540
 Arg Pro His Asp Tyr Ser Ala Asp Gly Phe Asn Asp Trp Ala Phe Met
 545 550 555 560
 Thr Thr His Ser Trp Asp Glu Asp Pro Ser Gly Glu Trp Val Leu Glu
 565 570 575
 Ile Glu Asn Thr Ser Glu Ala Asn Asn Tyr Gly Thr Leu Thr Lys Phe
 580 585 590
 Thr Leu Val Leu Tyr Gly Thr Ala Pro Glu Gly Leu Pro Val Pro Pro
 595 600 605
 Glu Ser Ser Gly Cys Lys Thr Leu Thr Ser Ser Gln Ala Cys Val Val
 610 615 620
 Cys Glu Glu Gly Phe Ser Leu His Gln Lys Ser Cys Val Gln His Cys
 625 630 635 640
 Pro Pro Gly Phe Ala Pro Gln Val Leu Asp Thr His Tyr Ser Thr Glu
 645 650 655
 Asn Asp Val Glu Thr Ile Arg Ala Ser Val Cys Ala Pro Cys His Ala
 660 665 670
 Ser Cys Ala Thr Cys Gln Gly Pro Ala Leu Thr Asp Cys Leu Ser Cys
 675 680 685
 Pro Ser His Ala Ser Leu Asp Pro Val Glu Gln Thr Cys Ser Arg Gln
 690 695 700
 Ser Gln Ser Ser Arg Glu Ser Pro Pro Gln Gln Gln Pro Pro Arg Leu
 705 710 715 720
 Pro Pro Glu Val Glu Ala Gly Gln Arg Leu Arg Ala Gly Leu Leu Pro
 725 730 735
 Ser His Leu Pro Glu Val Val Ala Gly Leu Ser Cys Ala Phe Ile Val
 740 745 750
 Leu Val Phe Val Thr Val Phe Leu Val Leu Gln Leu Arg Ser Gly Phe
 755 760 765
 Ser Phe Arg Gly Val Lys Val Tyr Thr Met Asp Arg Gly Leu Ile Ser
 770 775 780
 Tyr Lys Gly Leu Pro Pro Glu Ala Trp Gln Glu Glu Cys Pro Ser Asp
 785 790 795 800
 Ser Glu Glu Asp Glu Gly Arg Gly Glu Arg Thr Ala Phe Ile Lys Asp
 805 810 815
 Gln Ser Ala Leu
 820

<210> 2205

<211> 480
 <212> PRT
 <213> Homo sapiens

<400> 2205
 Gln Arg Pro Ala Ser Gln Leu Leu Ala Pro Phe Ala Ala Glu Ala Leu
 1 5 10 15
 Pro Gly Ala Pro Arg Ala Ala Met Ala Gln His Phe Ser Leu Ala Ala
 20 25 30
 Cys Asp Val Val Gly Phe Asp Leu Asp His Thr Leu Cys Arg Tyr Asn
 35 40 45
 Leu Pro Glu Ser Ala Pro Leu Ile Tyr Asn Ser Phe Ala Gln Phe Leu
 50 55 60
 Val Lys Glu Lys Gly Tyr Asp Lys Glu Leu Leu Asn Val Thr Pro Glu
 65 70 75 80
 Asp Trp Asp Phe Cys Cys Lys Gly Leu Ala Leu Asp Leu Glu Asp Gly
 85 90 95
 Asn Phe Leu Lys Leu Ala Asn Asn Gly Thr Val Leu Arg Ala Ser His
 100 105 110
 Gly Thr Lys Met Met Thr Pro Glu Val Leu Ala Glu Ala Tyr Gly Lys
 115 120 125
 Lys Glu Trp Lys His Phe Leu Ser Asp Thr Gly Met Ala Cys Arg Ser
 130 135 140
 Gly Lys Tyr Tyr Phe Tyr Asp Asn Tyr Phe Asp Leu Pro Gly Ala Leu
 145 150 155 160
 Leu Cys Ala Arg Val Val Asp Tyr Leu Thr Lys Leu Asn Asn Gly Gln
 165 170 175
 Lys Thr Phe Asp Phe Trp Lys Asp Ile Val Ala Ala Ile Gln His Asn
 180 185 190
 Tyr Lys Met Ser Ala Phe Lys Glu Asn Cys Gly Ile Tyr Phe Pro Glu
 195 200 205
 Ile Lys Arg Asp Pro Gly Arg Tyr Leu His Ser Arg Pro Glu Ser Val
 210 215 220
 Lys Lys Trp Leu Arg Gln Leu Lys Asn Ala Gly Lys Ile Leu Leu Leu
 225 230 235 240
 Ile Thr Ser Ser His Ser Asp Tyr Cys Arg Leu Leu Cys Ala Tyr Ile
 245 250 255
 Leu Gly Asn Asp Phe Thr Asp Leu Phe Asp Ile Val Ile Thr Asn Ala
 260 265 270
 Leu Lys Pro Gly Phe Phe Ser His Leu Pro Ser Gln Arg Pro Phe Arg
 275 280 285
 Thr Leu Glu Asn Asp Glu Glu Gln Glu Ala Leu Pro Ser Leu Asp Lys
 290 295 300
 Pro Gly Trp Tyr Ser Gln Gly Asn Ala Val His Leu Tyr Glu Leu Leu
 305 310 315 320
 Lys Lys Met Thr Gly Lys Pro Glu Pro Lys Val Val Tyr Phe Gly Asp
 325 330 335
 Ser Met His Ser Asp Ile Phe Pro Ala Arg His Tyr Ser Asn Trp Glu
 340 345 350
 Thr Val Leu Ile Leu Glu Glu Leu Arg Gly Asp Glu Gly Thr Arg Ser
 355 360 365
 Gln Arg Pro Glu Glu Ser Glu Pro Leu Glu Lys Lys Gly Lys Tyr Glu
 370 375 380
 Gly Pro Lys Ala Lys Pro Leu Asn Thr Ser Ser Lys Lys Trp Gly Ser
 385 390 395 400
 Phe Phe Ile Asp Ser Val Leu Gly Leu Glu Asn Thr Glu Asp Ser Leu
 405 410 415
 Val Tyr Thr Trp Ser Cys Lys Arg Ile Ser Thr Tyr Ser Thr Ile Ala
 420 425 430
 Ile Pro Ser Ile Glu Ala Ile Ala Glu Leu Pro Leu Asp Tyr Lys Phe
 435 440 445
 Thr Arg Phe Ser Ser Ser Asn Ser Lys Thr Ala Gly Tyr Tyr Pro Asn
 450 455 460

Pro Pro Leu Val Leu Ser Ser Asp Glu Thr Leu Ile Ser Lys
 465 470 475 478

<210> 2206
 <211> 414
 <212> PRT
 <213> Homo sapiens

<400> 2206

Ser Ser Pro Ser Val Phe Glu Phe Glu His Ala Val Gln Pro Val Phe
 1 5 10 15
 Thr Met Glu Phe Leu Lys Thr Cys Val Leu Arg Arg Asn Ala Cys Thr
 20 25 30
 Ala Val Cys Phe Trp Arg Ser Lys Val Val Gln Lys Pro Ser Val Arg
 35 40 45
 Arg Ile Ser Thr Thr Ser Pro Arg Ser Thr Val Met Pro Ala Trp Val
 50 55 60
 Ile Asp Lys Tyr Gly Lys Asn Glu Val Leu Arg Phe Thr Gln Asn Met
 65 70 75 80
 Met Met Pro Ile Ile His Tyr Pro Asn Glu Val Ile Val Lys Val His
 85 90 95
 Ala Ala Ser Val Asn Pro Ile Asp Val Asn Met Arg Ser Gly Tyr Gly
 100 105 110
 Ala Thr Ala Leu Asn Met Lys Arg Asp Pro Leu His Val Lys Ile Lys
 115 120 125
 Gly Glu Glu Phe Pro Leu Thr Leu Gly Arg Asp Val Ser Gly Val Val
 130 135 140
 Met Glu Cys Gly Leu Asp Val Lys Tyr Phe Lys Pro Gly Asp Glu Val
 145 150 155 160
 Trp Ala Ala Val Pro Pro Trp Lys Gln Gly Thr Leu Ser Glu Phe Val
 165 170 175
 Val Val Ser Gly Asn Glu Val Ser His Lys Pro Lys Ser Leu Thr His
 180 185 190
 Thr Gln Ala Ala Ser Leu Pro Tyr Val Ala Leu Thr Ala Trp Ser Ala
 195 200 205
 Ile Asn Lys Val Gly Gly Leu Asn Asp Lys Asn Cys Thr Gly Lys Arg
 210 215 220
 Val Leu Ile Leu Gly Ala Ser Gly Gly Val Gly Thr Phe Ala Ile Gln
 225 230 235 240
 Val Met Lys Ala Trp Asp Ala His Val Thr Ala Val Cys Ser Gln Asp
 245 250 255
 Ala Ser Glu Leu Val Arg Lys Leu Gly Ala Asp Asp Val Ile Asp Tyr
 260 265 270
 Lys Ser Gly Ser Val Glu Glu Gln Leu Lys Ser Leu Lys Pro Phe Asp
 275 280 285
 Phe Ile Leu Asp Asn Val Gly Gly Ser Thr Glu Thr Trp Ala Pro Asp
 290 295 300
 Phe Leu Lys Lys Trp Ser Gly Ala Thr Tyr Val Thr Leu Val Thr Pro
 305 310 315 320
 Phe Leu Leu Asn Met Asp Arg Leu Gly Ile Ala Asp Gly Met Leu Gln
 325 330 335
 Thr Gly Val Thr Val Gly Ser Lys Ala Leu Lys His Phe Trp Lys Gly
 340 345 350
 Val His Tyr Arg Trp Ala Phe Phe Met Ala Ser Gly Pro Cys Leu Asp
 355 360 365
 Asp Ile Ala Glu Leu Val Asp Ala Gly Lys Ile Arg Pro Val Ile Glu
 370 375 380
 Gln Thr Phe Pro Phe Ser Lys Val Pro Glu Ala Phe Leu Lys Val Glu
 385 390 395 400
 Arg Gly His Ala Arg Gly Lys Thr Val Ile Asn Val Val
 405 410 413

<210> 2207
 <211> 699
 <212> PRT
 <213> Homo sapiens

<400> 2207
 Leu Arg Arg Arg Lys Met Thr Pro Gln Ser Leu Leu Gln Thr Thr Leu
 1 5 10 15
 Phe Leu Leu Ser Leu Leu Phe Leu Val Gln Gly Ala His Gly Arg Gly
 20 25 30
 His Arg Glu Asp Phe Arg Phe Cys Ser Gln Arg Asn Gln Thr His Arg
 35 40 45
 Ser Ser Leu His Tyr Lys Pro Thr Pro Asp Leu Arg Ile Ser Ile Glu
 50 55 60
 Asn Ser Glu Glu Ala Leu Thr Val His Ala Pro Phe Pro Ala Ala His
 65 70 75 80
 Pro Ala Ser Arg Ser Phe Pro Asp Pro Arg Gly Leu Tyr His Phe Cys
 85 90 95
 Leu Tyr Trp Asn Arg His Ala Gly Arg Leu His Leu Leu Tyr Gly Lys
 100 105 110
 Arg Asp Phe Leu Leu Ser Asp Lys Ala Ser Ser Leu Leu Cys Phe Gln
 115 120 125
 His Gln Glu Glu Ser Leu Ala Gln Gly Pro Pro Leu Leu Ala Thr Ser
 130 135 140
 Val Thr Ser Trp Trp Ser Pro Gln Asn Ile Ser Leu Pro Ser Ala Ala
 145 150 155 160
 Ser Phe Thr Phe Ser Phe His Ser Pro Pro His Thr Gly Ala His Asn
 165 170 175
 Ala Ser Val Asp Met Cys Glu Leu Lys Arg Asp Leu Gln Leu Leu Ser
 180 185 190
 Gln Phe Leu Lys His Pro Gln Lys Ala Ser Arg Arg Pro Ser Ala Ala
 195 200 205
 Pro Ala Ser Gln Gln Leu Gln Ser Leu Glu Ser Lys Leu Thr Ser Val
 210 215 220
 Arg Phe Met Gly Asp Met Gly Ser Phe Glu Glu Asp Arg Ile Asn Ala
 225 230 235 240
 Thr Val Trp Lys Leu Gln Pro Thr Ala Gly Leu Gln Asp Leu His Ile
 245 250 255
 His Ser Arg Gln Glu Glu Glu Gln Ser Glu Ile Met Glu Tyr Ser Val
 260 265 270
 Leu Leu Pro Arg Thr Leu Phe Gln Arg Thr Lys Gly Arg Ser Gly Glu
 275 280 285
 Ala Glu Lys Arg Leu Leu Leu Val Asp Phe Ser Ser Gln Ala Leu Phe
 290 295 300
 Gln Asp Lys Asn Ser Ser Gln Val Leu Gly Glu Lys Val Leu Gly Ile
 305 310 315 320
 Val Val Gln Asn Thr Lys Val Ala Asn Leu Thr Glu Pro Val Val Leu
 325 330 335
 Thr Phe Gln His Gln Leu Gln Pro Lys Asn Val Thr Leu Gln Cys Val
 340 345 350
 Phe Trp Val Glu Asp Pro Thr Leu Ser Ser Pro Gly His Trp Ser Ser
 355 360 365
 Ala Gly Cys Glu Thr Val Arg Arg Glu Thr Gln Thr Ser Cys Phe Cys
 370 375 380
 Asn His Leu Thr Tyr Phe Ala Val Leu Met Val Ser Ser Val Glu Val
 385 390 395 400
 Asp Ala Val His Lys His Tyr Leu Ser Leu Leu Ser Tyr Val Gly Cys
 405 410 415
 Val Val Ser Ala Leu Ala Cys Leu Val Thr Ile Ala Ala Tyr Leu Cys
 420 425 430

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Ser Arg Val Pro Leu Pro Cys Arg Arg Lys Pro Arg Asp Tyr Thr Ile
      435      440      445
Lys Val His Met Asn Leu Leu Leu Ala Val Phe Leu Leu Asp Thr Ser
      450      455      460
Phe Leu Leu Ser Glu Pro Val Ala Leu Thr Gly Ser Glu Ala Gly Cys
465      470      475      480
Arg Ala Ser Ala Ile Phe Leu His Phe Ser Leu Leu Thr Cys Leu Ser
      485      490      495
Trp Met Gly Leu Glu Gly Tyr Asn Leu Tyr Arg Leu Val Val Glu Val
      500      505      510
Phe Gly Thr Tyr Val Pro Gly Tyr Leu Leu Lys Leu Ser Ala Met Gly
      515      520      525
Trp Gly Phe Pro Ile Phe Leu Val Thr Leu Val Ala Leu Val Asp Val
      530      535      540
Asp Asn Tyr Gly Pro Ile Ile Leu Ala Val His Arg Thr Pro Glu Gly
545      550      555      560
Val Ile Tyr Pro Ser Met Cys Trp Ile Arg Asp Ser Leu Val Ser Tyr
      565      570      575
Ile Thr Asn Leu Gly Leu Phe Ser Leu Val Phe Leu Phe Asn Met Ala
      580      585      590
Met Leu Ala Thr Met Val Val Gln Ile Leu Arg Leu Arg Pro His Thr
      595      600      605
Gln Lys Trp Ser His Val Leu Thr Leu Leu Cys Leu Ser Leu Val Leu
      610      615      620
Gly Leu Pro Trp Ala Leu Ile Phe Phe Ser Phe Ala Ser Gly Thr Phe
625      630      635      640
Gln Leu Val Val Leu Tyr Leu Phe Ser Ile Ile Thr Ser Phe Gln Gly
      645      650      655
Phe Leu Ile Phe Ile Trp Tyr Trp Ser Met Arg Leu Gln Ala Arg Gly
      660      665      670
Gly Pro Ser Pro Leu Lys Ser Asn Ser Asp Ser Ala Arg Leu Pro Ile
      675      680      685
Ser Ser Gly Ser Thr Ser Ser Ser Arg Ile
690      695      698

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<210> 2208
<211> 76
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(76)
<223> Xaa = any amino acid or nothing

```

```

<400> 2208
Asp Ala Gly Ala Val Lys Ser Ser Asp Thr Asn Ile Trp Phe Arg Gly
 1      5      10      15
Met Cys Asp Asp Lys Lys Gly His Arg Cys Pro Ser Xaa Gly Gln Pro
      20      25      30
Gln His Phe His Val Ala Phe His Thr Glu Ala Glu Gly Ala Met Phe
      35      40      45
Tyr Phe Arg Leu His Val Ile His Arg Val Met Gln Ser Gln Gln Gln
      50      55      60
Leu Phe Pro Ser Thr Leu Phe Ser Trp Leu Leu Glu
65      70      75 76

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<210> 2209
<211> 99
<212> PRT

```

<213> Homo sapiens

<221> misc_feature

<222> (1)...(99)

<223> Xaa = any amino acid or nothing

<400> 2209

```

Phe Phe Phe Trp Arg Gln Ser Leu Ala Leu Leu Pro Arg Leu Glu Cys
 1           5           10           15
Ser Gly Ala Thr Gly Ala His Cys Asn Leu His Phe Pro Gly Ser Ser
           20           25           30
Asp Cys Pro Thr Ser Ala Ser Xaa Ile Ala Gly Ile Thr Gly Ala Cys
           35           40           45
Tyr His Ala Trp Leu Leu Phe Val Phe Leu Ala Glu Thr Gly Phe His
           50           55           60
His Val Gly Gln Gly Gly Leu Glu Leu Leu Thr Ser Ser Asp Pro Ser
 65           70           75           80
Gly Ser Ala Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His Cys Thr
           85           90           95
Trp Pro Ile
           99

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<210> 2210

<211> 189

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(189)

<223> Xaa = any amino acid or nothing

<400> 2210

```

Ala Leu Ser Thr Glu Thr Arg Thr Pro Asp Met Arg Arg Leu Leu Leu
 1           5           10           15
Val Thr Ser Leu Val Val Val Leu Leu Trp Glu Ala Gly Ala Val Pro
           20           25           30
Ala Pro Lys Val Pro Ile Lys Met Gln Val Lys His Trp Pro Ser Glu
           35           40           45
Gln Asp Pro Glu Lys Ala Trp Gly Ala Arg Val Val Glu Pro Pro Glu
           50           55           60
Lys Asp Asp Gln Leu Val Val Leu Phe Pro Val Gln Lys Pro Lys Leu
 65           70           75           80
Leu Thr Thr Glu Glu Lys Pro Arg Gly Gln Gly Arg Gly Pro Ile Leu
           85           90           95
Pro Gly Thr Lys Ala Trp Met Glu Thr Glu Asp Thr Leu Gly Arg Val
           100          105          110
Leu Ser Pro Glu Pro Asp His Asp Ser Leu Tyr His Pro Pro Pro Glu
           115          120          125
Glu Asp Gln Gly Glu Glu Arg Pro Arg Leu Trp Val Met Pro Asn His
 130          135          140
Gln Val Leu Leu Gly Pro Glu Glu Asp Gln Asp His Ile Tyr His Pro
 145          150          155          160
Gln Xaa Gly Ser Arg Gly His His Cys Pro Arg Pro Val Pro Arg Pro
           165          170          175
Arg Leu Leu Gly Leu Gly Pro Ser Leu Pro Cys Pro Ser
           180          185          189

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<210> 2211

<211> 72
 <212> PRT
 <213> Homo sapiens
 <221> misc_feature
 <222> (1)...(72)
 <223> Xaa = any amino acid or nothing

<400> 2211
 Asn Tyr Val Cys Thr Ile Ala Phe Xaa Glu Lys Lys Met Gly Phe Xaa
 1 5 10 15
 Leu Ser Leu Ser Cys Leu Val Leu Leu Phe Val Leu Phe Leu Asp Cys
 20 25 30
 Ile Leu Thr Thr Thr Thr Arg Ile Met Phe His Cys Thr Tyr Leu Phe
 35 40 45
 Ala Ser Val Cys Leu Ser Leu Leu Asn Thr Leu Leu Ser Pro Asn Cys
 50 55 60
 Leu Lys Ser Ala Met Ile Leu Gln
 65 70 72

<210> 2212
 <211> 60
 <212> PRT
 <213> Homo sapiens
 <221> misc_feature
 <222> (1)...(60)
 <223> Xaa = any amino acid or nothing

<400> 2212
 Leu Lys Tyr Tyr His Ile Thr Met Gly Ile Tyr Lys Thr Gly Lys Lys
 1 5 10 15
 Val Ile Leu Xaa Lys Ser Ser Met Ser Asn Arg Phe Ser Val Ile Phe
 20 25 30
 Tyr Lys Asn Ile Gln Lys Leu Ser Phe Ser Asn Tyr Val Tyr His Gln
 35 40 45
 Asn Tyr Val Phe Ser Ser Asp Trp Ser Tyr Asp Phe
 50 55 60

<210> 2213
 <211> 116
 <212> PRT
 <213> Homo sapiens
 <221> misc_feature
 <222> (1)...(116)
 <223> Xaa = any amino acid or nothing

<400> 2213
 His Gly Ser Ser Cys Ala Leu Gly Asp Leu Ala Pro Gly Xaa Leu Pro
 1 5 10 15
 Ser Gly Pro Val Leu Ser Ser Pro Ala Val Arg Leu Xaa Arg Lys Pro
 20 25 30
 Leu Val Trp Asp Ser Pro Ser Cys Leu Pro Ala Thr Gly Pro Thr Xaa
 35 40 45
 Gly Leu Val Leu Val Leu Gly Gly Pro Asp Cys Thr Xaa Trp Ala Arg
 50 55 60

Gly Gln His Glu His Lys Arg Met Arg Ala Pro Xaa Ser Cys Arg Val
 65 70 75 80
 Thr Val Asn Leu Ala Lys Lys Lys Lys Thr Asp Gln Cys Ile Lys
 85 90 95
 Pro Asn Tyr Gln Ser Pro Pro Lys Glu Cys Asp Tyr Asn Ile Leu Ala
 100 105 110
 Asn Ser Val Ala
 115 116

<210> 2214
 <211> 258
 <212> PRT
 <213> Homo sapiens

<400> 2214
 Ser Asp Lys Gly Gly Lys Lys Ala Asp Arg Lys Asn His Leu Arg His
 1 5 10 15
 Ala Phe Pro Leu Leu Pro His Arg Val Arg Glu Arg Leu His Asp Pro
 20 25 30
 Lys Val Pro Val Asp Ala Asp His Val Gln Gly Gln Asp Pro Gly Arg
 35 40 45
 Ala Ala His Asp Ile His Gly Glu Asp Val Thr Glu Lys Val Ser Lys
 50 55 60
 Asp Pro Leu Ala Pro Asp Glu Val Gly Asp Thr Asp Glu Gly His Asp
 65 70 75 80
 Arg His Gly His Arg Glu Val Gly Gln Arg His Gly His Asp Gln Glu
 85 90 95
 Glu Val Ala Tyr Glu Glu Arg Ala Cys Glu Gly Gly Lys Phe Ala Thr
 100 105 110
 Val Glu Val Thr Asp Lys Pro Val Asp Glu Ala Leu Arg Glu Ala Met
 115 120 125
 Pro Lys Val Ala Lys Tyr Ala Gly Gly Thr Asn Asp Lys Gly Ile Gly
 130 135 140
 Met Gly Met Thr Val Pro Ile Ser Phe Ala Val Phe Pro Asn Glu Asp
 145 150 155 160
 Gly Ser Leu Gln Lys Lys Leu Lys Val Trp Phe Arg Ile Pro Asn Gln
 165 170 175
 Phe Gln Ser Asp Pro Pro Ala Pro Ser Asp Lys Ser Val Lys Ile Glu
 180 185 190
 Glu Arg Glu Gly Ile Thr Val Tyr Ser Met Gln Phe Gly Gly Tyr Ala
 195 200 205
 Lys Glu Ala Asp Tyr Val Ala Gln Ala Thr Arg Leu Arg Ala Ala Leu
 210 215 220
 Glu Gly Thr Ala Thr Tyr Arg Gly Asp Ile Tyr Phe Cys Thr Gly Tyr
 225 230 235 240
 Asp Pro Pro Met Lys Pro Tyr Gly Arg Arg Asn Glu Ile Trp Leu Leu
 245 250 255
 Lys Thr
 258

<210> 2215
 <211> 41
 <212> PRT
 <213> Homo sapiens
 <221> misc_feature
 <222> (1)...(41)
 <223> Xaa = any amino acid or nothing

<400> 2215
 Arg Arg Leu Gly Ala Val Ala His Ala Tyr Thr Ser Ser Thr Leu Gly
 1 5 10 15
 Gly Arg Gly Gly Trp Ile Thr Xaa Gly Gln Glu Leu Gln Thr Ser Leu
 20 25 30
 Ala Asn Met Ala Lys Pro Arg Leu Tyr
 35 40 41

<210> 2216
 <211> 223
 <212> PRT
 <213> Homo sapiens

<400> 2216
 Thr Cys Thr Tyr Lys Tyr Leu Met Gly Trp Ile Arg Gly Arg Arg Ser
 1 5 10 15
 Arg His Ser Trp Glu Met Ser Glu Phe His Asn Tyr Asn Leu Asp Leu
 20 25 30
 Lys Lys Ser Asp Phe Ser Thr Arg Trp Gln Lys Gln Arg Cys Pro Val
 35 40 45
 Val Lys Ser Lys Cys Arg Glu Asn Ala Ser Pro Phe Phe Phe Cys Cys
 50 55 60
 Phe Ile Ala Val Ala Met Gly Ile Arg Phe Ile Ile Met Val Ala Ile
 65 70 75 80
 Trp Ser Ala Val Phe Leu Asn Ser Leu Phe Asn Gln Glu Val Gln Ile
 85 90 95
 Pro Leu Thr Glu Ser Tyr Cys Gly Pro Cys Pro Lys Asn Trp Ile Cys
 100 105 110
 Tyr Lys Asn Asn Cys Tyr Gln Phe Phe Asp Glu Ser Lys Asn Trp Tyr
 115 120 125
 Glu Ser Gln Ala Ser Cys Met Ser Gln Asn Ala Ser Leu Leu Lys Val
 130 135 140
 Tyr Ser Lys Glu Asp Gln Asp Leu Leu Lys Leu Val Lys Ser Tyr His
 145 150 155 160
 Trp Met Gly Leu Val His Ile Pro Thr Asn Gly Ser Trp Gln Trp Glu
 165 170 175
 Asp Gly Ser Ile Leu Ser Pro Asn Leu Leu Thr Ile Ile Glu Met Gln
 180 185 190
 Lys Gly Asp Cys Ala Leu Tyr Ala Ser Ser Phe Lys Gly Tyr Ile Glu
 195 200 205
 Asn Cys Ser Thr Pro Asn Thr Tyr Ile Cys Met Gln Arg Thr Val
 210 215 220 223

<210> 2217
 <211> 82
 <212> PRT
 <213> Homo sapiens

<221> misc_feature
 <222> (1)...(82)
 <223> Xaa = any amino acid or nothing

<400> 2217
 Ser Ile Lys Ile Ile Glu Ala Phe Gly Ser Asn Gly Pro Asp Phe Trp
 1 5 10 15
 Phe Phe Arg Tyr Trp Ser Pro Xaa Leu Phe Arg Gln Gln Val Val Phe
 20 25 30

```

Ile Met Pro Phe Phe Gln Thr Leu Trp Leu Met Asn Ala Asn Arg Phe
      35              40              45
Cys Ser Ile Phe Thr Thr Thr Asn Val Ala Asn Asn Cys Trp Trp Thr
      50              55              60
Pro Tyr His Cys Trp Leu Ser Val Val Val Cys Arg Cys Glu Ser His
      65              70              75              80
Gly Ile
      82

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<210> 2218
<211> 89
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(89)
<223> Xaa = any amino acid or nothing

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<400> 2218
Pro Asp Thr Val Ile Gly Gly Arg Gly Ser Gly Gly Lys Glu Phe Gly
 1              5              10              15
Arg Trp Val Leu Trp Xaa Val Phe Glu Xaa Arg Leu Gly Thr Pro Lys
      20              25              30
Gly Ser Cys Pro Ala Gly Gly Ser Arg Met Val Ser Glu Ser Asp Xaa
      35              40              45
Glu Gly Arg Gly Cys Xaa Ala Ser Tyr Pro Cys Ala Cys Xaa Ala Gly
      50              55              60
Ser Xaa Trp Arg Xaa Gly Ser Arg Pro Ala Gly Arg Gly Thr Pro Pro
      65              70              75              80
Arg Ser Leu Ser His Ala Arg Pro Pro
      85              89

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<210> 2219
<211> 297
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(297)
<223> Xaa = any amino acid or nothing

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<400> 2219
Pro Arg Arg Asp Ala Glu Asp Arg Asp Glu Ser Cys Leu Asn Pro Ala
 1              5              10              15
Phe Pro Ile Gly Leu Leu His Pro Asn Ser Val Asn Ser Met Ala Arg
      20              25              30
Phe Leu Thr Leu Cys Thr Trp Leu Leu Leu Leu Gly Pro Gly Leu Leu
      35              40              45
Ala Thr Val Arg Ala Glu Cys Ser Gln Asp Cys Ala Thr Cys Ser Tyr
      50              55              60
Arg Leu Val Arg Pro Ala Asp Ile Asn Phe Leu Ala Cys Val Met Glu
      65              70              75              80
Cys Glu Gly Lys Leu Pro Ser Leu Lys Ile Trp Glu Thr Cys Lys Glu
      85              90              95
Leu Leu Gln Leu Ser Lys Pro Glu Leu Pro Gln Asp Gly Thr Ser Thr
      100              105              110
Leu Arg Glu Asn Ser Lys Pro Glu Glu Ser His Leu Leu Ala Lys Arg
      115              120              125

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Tyr Gly Gly Phe Met Lys Arg Tyr Gly Gly Phe Met Lys Lys Met Asp
 130          135          140
Glu Leu Tyr Pro Met Glu Pro Glu Glu Ala Asn Gly Ser Glu Ile
145          150          155          160
Leu Ala Lys Arg Tyr Gly Gly Phe Met Lys Lys Asp Ala Glu Glu Asp
          165          170          175
Asp Ser Leu Ala Asn Ser Ser Asp Leu Leu Lys Glu Leu Leu Glu Thr
          180          185          190
Gly Asp Asn Arg Glu Arg Ser His His Gln Asp Gly Ser Asp Asn Glu
          195          200          205
Glu Glu Val Ser Lys Arg Tyr Gly Gly Phe Met Arg Gly Leu Lys Arg
210          215          220
Ser Pro Gln Leu Lys Glu Lys Ala Lys Glu Leu Gln Lys Arg Tyr Gly
225          230          235          240
Gly Phe Met Arg Arg Val Gly Pro Gln Lys Trp Xaa Met Thr Ser Pro
          245          250          255
Gln Asn Arg Tyr Gly Gly Phe Leu Lys Arg Phe Ala Glu Ala Leu Pro
          260          265          270
Ser Asp Glu Glu Gly Glu Ser Tyr Ser Lys Glu Val Pro Glu Met Glu
          275          280          285
Lys Arg Tyr Gly Gly Phe Met Arg Phe
290          295          297

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<210> 2220

<211> 267

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(267)

<223> Xaa = any amino acid or nothing

<400> 2220

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Glu Ile His Gln Arg Leu Thr Glu Arg Thr Gln Phe Leu Asp Glu Ser
 1          5          10          15
Arg Lys Asn Pro Asn Ser Xaa Gln Ala Asn Leu Leu Arg Gly Gly Gly
          20          25          30
Ala Gly Gln Gly Arg Gly Arg Glu Gly Ala Glu Ser Gly Gly Ser Arg
          35          40          45
Gly Glu Gly Pro Gly Ser Asp Gly Arg Leu Pro Ala Thr Gly Asp Phe
          50          55          60
Trp Ser Pro Arg Ser Gln Arg Arg Gly Cys Cys Gly Arg Arg Ala Pro
65          70          75          80
Arg Pro Glu Ala Met Glu Asn Gly Ala Val Tyr Ser Pro Thr Thr Glu
          85          90          95
Glu Asp Pro Gly Pro Ala Arg Gly Pro Arg Ser Gly Leu Ala Ala Tyr
          100          105          110
Phe Phe Met Gly Arg Leu Pro Leu Leu Arg Arg Val Leu Lys Gly Leu
          115          120          125
Gln Leu Leu Leu Ser Leu Leu Ala Phe Ile Cys Glu Glu Val Val Ser
          130          135          140
Gln Cys Thr Leu Cys Gly Gly Leu Tyr Phe Phe Glu Phe Val Ser Cys
145          150          155          160
Ser Ala Phe Leu Leu Ser Leu Leu Ile Leu Ile Val Tyr Cys Thr Pro
          165          170          175
Phe Tyr Glu Arg Val Asp Thr Thr Lys Val Lys Ser Ser Asp Phe Tyr
          180          185          190
Ile Thr Leu Gly Thr Gly Cys Val Phe Leu Leu Ala Ser Ile Ile Phe
          195          200          205
Val Ser Thr His Asp Arg Thr Ser Ala Glu Ile Ala Ala Ile Val Phe
210          215          220

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Gly Phe Ile Ala Ser Phe Met Phe Leu Leu Asp Phe Ile Thr Met Leu
 225 230 235 240
 Tyr Glu Lys Arg Gln Glu Ser Gln Leu Arg Lys Pro Glu Asn Thr Thr
 245 250 255
 Arg Ala Glu Ala Leu Thr Glu Pro Leu Asn Ala
 260 265 267

<210> 2221
 <211> 129
 <212> PRT
 <213> Homo sapiens
 <221> misc_feature
 <222> (1)...(129)
 <223> Xaa = any amino acid or nothing

<400> 2221
 Ser Cys Ala Met Cys Ser Gly Leu Leu Xaa Leu Leu Leu Pro Ile Trp
 1 5 10 15
 Leu Ser Trp Thr Leu Gly Thr Arg Gly Ser Glu Pro Arg Ser Val Asn
 20 25 30
 Asp Pro Gly Asn Met Ser Phe Val Lys Glu Thr Val Asp Lys Leu Leu
 35 40 45
 Thr Gly Phe Arg Cys Phe Arg Glu Arg Glu Ala Ala Pro Arg Arg Ala
 50 55 60
 Leu Arg Gly Ala Ala Leu Pro Gly Glu Ser Glu Ala Gly Asp Pro Glu
 65 70 75 80
 Ser Leu Arg Ser Ser Val Asn Ala Asp Trp Ile Gln Tyr Ser Asp Leu
 85 90 95
 Trp Glu Ala Glu Val Ser Thr Pro Arg Cys Glu Ala Gly Phe Cys Gln
 100 105 110
 Glu Cys Phe Arg Thr Pro Gly Asn Gln Glu Lys Asp Gly Pro Phe Ile
 115 120 125
 Cys
 129

<210> 2222
 <211> 234
 <212> PRT
 <213> Homo sapiens
 <221> misc_feature
 <222> (1)...(234)
 <223> Xaa = any amino acid or nothing

<400> 2222
 Phe Val Asp Ile Val Ser Val Val Glu Phe Pro His Cys Pro Glu Ala
 1 5 10 15
 Arg Phe Pro Ala Gln His Gly Gln Asp Ser Lys Arg Leu Thr Leu Cys
 20 25 30
 Pro Gly Gly Ser Xaa Pro Gln Ala Thr Leu His Leu Asp Arg Met Arg
 35 40 45
 Val Ser Ala Ser Pro Thr Lys Glu Ile Gln Val Lys Lys Tyr Lys Cys
 50 55 60
 Gly Leu Ile Lys Pro Cys Pro Ala Asn Tyr Phe Ala Phe Lys Ile Cys
 65 70 75 80
 Ser Gly Ala Ala Asn Val Val Gly Pro Thr Met Cys Phe Glu Asp Arg
 85 90 95

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Met Ile Met Ser Pro Val Lys Asn Asn Val Gly Arg Gly Leu Asn Ile
      100      105      110
Ala Leu Val Asn Gly Thr Thr Gly Ala Val Leu Gly Gln Lys Ala Phe
      115      120      125
Asp Met Tyr Ser Gly Asp Val Met His Leu Val Lys Phe Leu Lys Glu
      130      135      140
Ile Pro Gly Gly Ala Leu Val Leu Val Ala Ser Tyr Asp Asp Pro Gly
      145      150      155      160
Thr Lys Met Asn Asp Glu Ser Arg Lys Leu Phe Ser Asp Leu Gly Ser
      165      170      175
Ser Tyr Ala Lys Gln Leu Gly Phe Arg Asp Ser Trp Val Phe Ile Gly
      180      185      190
Ala Lys Asp Leu Arg Gly Lys Ser Pro Phe Glu Gln Phe Leu Lys Glu
      195      200      205
Gln Pro Gln Thr Gln Asn Lys Tyr Glu Gly Trp Pro Glu Leu Leu Glu
      210      215      220
Met Glu Gly Cys Met Pro Pro Lys Pro Phe
      225      230      234

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<210> 2223
<211> 51
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(51)
<223> Xaa = any amino acid or nothing

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<400> 2223
Ile Leu Lys Cys Ala Gly His Gly Gly Ser Cys Leu Xaa Ser Gln His
  1           5           10           15
Phe Gly Arg Leu Arg Trp Glu Asp Arg Leu Arg Leu Gly Val Gln Asp
      20      25      30
His Pro Gly Gln His Cys Glu Thr Pro Ser Leu Leu Lys Ile Glu Arg
      35      40      45
Lys Leu Phe
      50  51

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<210> 2224
<211> 249
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(249)
<223> Xaa = any amino acid or nothing

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<400> 2224
Pro Cys Thr Ser Cys Val Leu Trp Ala Thr Leu His Leu Pro Ala Ser
  1           5           10           15
Thr Arg Lys Ala Pro Gln Ala Glu Cys Gly Met Ile Ser Ile Thr Glu
      20      25      30
Trp Gln Lys Ile Gly Val Gly Ile Thr Gly Phe Gly Ile Phe Phe Ile
      35      40      45
Leu Phe Gly Thr Leu Leu Tyr Phe Asp Ser Val Leu Leu Ala Phe Gly
      50      55      60
Asn Leu Leu Phe Leu Thr Gly Leu Ser Leu Ile Ile Gly Leu Arg Lys
      65      70      75      80

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Thr Phe Trp Phe Phe Phe Gln Arg His Lys Leu Lys Gly Thr Ser Phe
      85          90          95
Leu Leu Gly Gly Val Val Ile Val Leu Leu Arg Trp Pro Leu Leu Gly
      100        105        110
Met Phe Leu Glu Thr Tyr Gly Phe Phe Ser Leu Phe Lys Gly Phe Phe
      115        120        125
Pro Val Ala Phe Gly Phe Leu Gly Asn Val Cys Asn Ile Pro Phe Leu
      130        135        140
Gly Ala Leu Phe Arg Arg Leu Gln Gly Thr Ser Ser Met Val Xaa Lys
      145        150        155        160
Thr Glu Met Ser Ser Leu Asn Leu Asp His Trp Leu Lys Gly Ala Lys
      165        170        175
Arg Glu Glu Trp Glu Pro Pro Pro Gln Ser Pro Ala Leu Thr His Ser
      180        185        190
Pro Thr Tyr Pro Gly Pro Pro Gln Val Gln Lys Glu Arg Asn Gly Ala
      195        200        205
Glu Gln Leu Thr Ser Asn Pro Gln Val Asp Ser Arg Gly Cys Gln Glu
      210        215        220
Ala Glu Met Gln Thr Pro Arg Arg Leu Gly Trp Gly Trp Tyr His Thr
      225        230        235        240
Leu Thr Leu Tyr Leu Trp Glu Glu Lys
      245        249

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<210> 2225
<211> 53
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(53)
<223> Xaa = any amino acid or nothing

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<400> 2225
Gly Glu Lys Pro Val Pro Thr Trp Leu Gln Asp Glu Ala Gly Gln Trp
 1          5          10          15
Leu Leu Gly Phe Val Ala Gln Pro Trp Gly Trp Pro Gly Ser Glu Arg
      20          25          30
His Glu Pro Xaa His Gly Gly Val Leu Phe Arg Leu Gly Pro Ser Ala
      35          40          45
Pro Pro Gly Lys Leu
      50          53

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<210> 2226
<211> 61
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(61)
<223> Xaa = any amino acid or nothing

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<400> 2226
Tyr Ser Cys Leu Cys Phe Leu Phe Lys His Ile Thr Ser Phe Lys Asn
 1          5          10          15
Ser Val His Ile Trp Leu Gly Thr Val Val His Ala Tyr Asn Pro Asn
      20          25          30
Ile Leu Gly Gly Gln Gly Gly Trp Ile Ala Xaa Gly Gln Glu Phe Lys
      35          40          45

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Thr Ser Leu Gly Asn Thr Val Arg Pro Cys Leu Tyr Lys
 50 55 60 61

<210> 2227
 <211> 312
 <212> PRT
 <213> Homo sapiens

<400> 2227
 Gly Cys Ala Pro Asp Thr Arg Phe Phe Val Pro Glu Pro Gly Gly Arg
 1 5 10 15
 Gly Ala Ala Pro Trp Val Ala Leu Val Ala Arg Gly Gly Cys Thr Phe
 20 25 30
 Lys Asp Lys Val Leu Val Ala Ala Arg Arg Asn Ala Ser Ala Val Val
 35 40 45
 Leu Tyr Asn Glu Glu Arg Tyr Gly Asn Ile Thr Leu Pro Met Ser His
 50 55 60
 Ala Gly Thr Gly Asn Ile Val Val Ile Met Ile Ser Tyr Pro Lys Gly
 65 70 75 80
 Arg Glu Ile Leu Glu Leu Val Gln Lys Gly Ile Pro Val Thr Met Thr
 85 90 95
 Ile Gly Val Gly Thr Arg His Val Gln Glu Phe Ile Ser Gly Gln Ser
 100 105 110
 Val Val Phe Val Ala Ile Ala Phe Ile Thr Met Met Ile Ile Ser Leu
 115 120 125
 Ala Trp Leu Ile Phe Tyr Tyr Ile Gln Arg Phe Leu Tyr Thr Gly Ser
 130 135 140
 Gln Ile Gly Ser Gln Ser His Arg Lys Glu Thr Lys Lys Val Ile Gly
 145 150 155 160
 Gln Leu Leu Leu His Thr Val Lys His Gly Glu Lys Gly Ile Asp Val
 165 170 175
 Asp Ala Glu Asn Cys Ala Val Cys Ile Glu Asn Phe Lys Val Lys Asp
 180 185 190
 Ile Ile Arg Ile Leu Pro Cys Lys His Ile Phe His Arg Ile Cys Ile
 195 200 205
 Asp Pro Trp Leu Leu Asp His Arg Thr Cys Pro Met Cys Lys Leu Asp
 210 215 220
 Val Ile Lys Ala Leu Gly Tyr Trp Gly Glu Pro Gly Asp Val Gln Glu
 225 230 235 240
 Met Pro Ala Pro Glu Ser Pro Pro Gly Arg Asp Pro Ala Ala Asn Leu
 245 250 255
 Ser Leu Ala Leu Pro Asp Asp Asp Gly Ser Asp Glu Ser Ser Pro Pro
 260 265 270
 Ser Ala Ser Pro Ala Glu Ser Glu Pro Gln Cys Asp Pro Ser Phe Lys
 275 280 285
 Gly Asp Ala Gly Glu Asn Thr Ala Leu Leu Glu Ala Gly Arg Ser Asp
 290 295 300
 Ser Arg His Gly Gly Pro Ile Ser
 305 310 312

<210> 2228
 <211> 305
 <212> PRT
 <213> Homo sapiens

<400> 2228
 Glu Arg Ser Leu Leu Cys Lys Val Asp Val Arg Trp Ile Tyr Val Ser
 1 5 10 15

Glu Gly Thr Lys Thr Gln Arg Arg His Arg Gln Gly Ser Leu Arg Arg
 20 25 30
 Gly Arg Met Gln Ala Ala Cys Trp Tyr Val Leu Phe Leu Leu Gln Pro
 35 40 45
 Thr Val Tyr Leu Val Thr Cys Ala Asn Leu Thr Asn Gly Gly Lys Ser
 50 55 60
 Glu Leu Leu Lys Ser Gly Ser Ser Lys Ser Thr Leu Lys His Ile Trp
 65 70 75 80
 Thr Glu Ser Ser Lys Asp Leu Ser Ile Ser Arg Leu Leu Ser Gln Thr
 85 90 95
 Phe Arg Gly Lys Glu Asn Asp Thr Asp Leu Asp Leu Arg Tyr Asp Thr
 100 105 110
 Pro Glu Pro Tyr Ser Glu Gln Asp Leu Trp Asp Trp Leu Arg Asn Ser
 115 120 125
 Thr Asp Leu Gln Glu Pro Arg Pro Arg Ala Lys Arg Arg Pro Ile Val
 130 135 140
 Lys Thr Gly Lys Phe Lys Lys Met Phe Gly Trp Gly Asp Phe His Ser
 145 150 155 160
 Asn Ile Lys Thr Val Lys Leu Asn Leu Leu Ile Thr Gly Lys Ile Val
 165 170 175
 Asp His Gly Asn Gly Thr Phe Ser Val Tyr Phe Arg His Asn Ser Thr
 180 185 190
 Gly Gln Gly Asn Val Ser Val Ser Leu Val Pro Pro Thr Lys Ile Val
 195 200 205
 Glu Phe Asp Leu Ala Gln Gln Thr Val Ile Asp Ala Lys Asp Ser Lys
 210 215 220
 Ser Phe Asn Cys Arg Ile Glu Tyr Glu Lys Val Asp Lys Ala Thr Lys
 225 230 235 240
 Asn Thr Leu Cys Asn Tyr Asp Pro Ser Lys Thr Cys Tyr Gln Glu Gln
 245 250 255
 Thr Gln Ser His Val Ser Trp Leu Cys Ser Lys Pro Phe Lys Val Ile
 260 265 270
 Cys Ile Tyr Ile Ser Phe Tyr Ser Thr Asp Tyr Lys Leu Val Gln Lys
 275 280 285
 Val Cys Pro Asp Tyr Asn Tyr His Ser Asp Thr Pro Tyr Phe Pro Ser
 290 295 300
 Gly
 305

<210> 2229
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 2229
 Thr Glu Ser Trp Lys Leu Lys Trp Trp Ser Pro Thr Cys Leu Asp Gln
 1 5 10 15
 Leu Asn Gly Ser Ala Pro Gly Asn Val Phe Ile His Gly
 20 25 29

<210> 2230
 <211> 188
 <212> PRT
 <213> Homo sapiens

<400> 2230
 Asp Ala Ala Val Ala Met Thr Ala Gln Gly Gly Leu Val Ala Asn Arg
 1 5 10 15

```

Gly Arg Arg Phe Lys Trp Ala Ile Glu Leu Ser Gly Pro Gly Gly Gly
      20      25      30
Ser Arg Gly Arg Ser Asp Arg Gly Ser Gly Gln Gly Asp Ser Leu Tyr
      35      40      45
Pro Val Gly Tyr Leu Asp Lys Gln Val Pro Asp Thr Ser Val Gln Glu
      50      55      60
Thr Asp Arg Ile Leu Val Glu Lys Arg Cys Trp Asp Ile Ala Leu Gly
      65      70      75      80
Pro Leu Lys Gln Ile Pro Met Asn Leu Phe Ile Met Tyr Met Ala Gly
      85      90      95
Asn Thr Ile Ser Ile Phe Pro Thr Met Met Val Cys Met Met Ala Trp
      100      105      110
Arg Pro Ile Gln Ala Leu Met Ala Ile Ser Ala Thr Phe Lys Met Leu
      115      120      125
Glu Ser Ser Ser Gln Lys Phe Leu Gln Gly Leu Val Tyr Leu Ile Gly
      130      135      140
Asn Leu Met Gly Leu Ala Leu Ala Val Tyr Lys Cys Gln Ser Met Gly
      145      150      155      160
Leu Leu Pro Thr His Ala Ser Asp Trp Leu Ala Phe Ile Glu Pro Pro
      165      170      175
Glu Arg Met Glu Phe Ser Gly Gly Gly Leu Leu Leu
      180      185      188

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<210> 2231
 <211> 386
 <212> PRT
 <213> Homo sapiens

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      <400> 2231
Ser Pro Gln Lys Thr Met Arg Ser His Thr Ile Thr Met Thr Thr Thr
  1      5      10      15
Ser Val Ser Ser Trp Pro Tyr Ser Ser His Arg Met Arg Phe Ile Thr
      20      25      30
Asn His Ser Asp Gln Pro Pro Gln Asn Phe Ser Ala Thr Pro Asn Val
      35      40      45
Thr Thr Cys Pro Met Asp Glu Lys Leu Leu Ser Thr Val Leu Thr Thr
      50      55      60
Ser Tyr Ser Val Ile Phe Ile Val Gly Leu Val Gly Asn Ile Ile Ala
      65      70      75      80
Leu Tyr Val Phe Leu Gly Ile His Arg Lys Arg Asn Ser Ile Gln Ile
      85      90      95
Tyr Leu Leu Asn Val Ala Ile Ala Asp Leu Leu Leu Ile Phe Cys Leu
      100      105      110
Pro Phe Arg Ile Met Tyr His Ile Asn Gln Asn Lys Trp Thr Leu Gly
      115      120      125
Val Ile Leu Cys Lys Val Val Gly Thr Leu Phe Tyr Met Asn Met Tyr
      130      135      140
Ile Ser Ile Ile Leu Leu Gly Phe Ile Ser Leu Asp Arg Tyr Ile Lys
      145      150      155      160
Ile Asn Arg Ser Ile Gln Gln Arg Lys Ala Ile Thr Thr Lys Gln Ser
      165      170      175
Ile Tyr Val Cys Cys Ile Val Trp Met Leu Ala Leu Gly Gly Phe Leu
      180      185      190
Thr Met Ile Ile Leu Thr Leu Lys Lys Gly Gly His Asn Ser Thr Met
      195      200      205
Cys Phe His Tyr Arg Asp Lys His Asn Ala Lys Gly Glu Ala Ile Phe
      210      215      220
Asn Phe Ile Leu Val Val Met Phe Trp Leu Ile Phe Leu Leu Ile Ile
      225      230      235      240
Leu Ser Tyr Ile Lys Ile Gly Lys Asn Leu Leu Arg Ile Ser Lys Arg
      245      250      255

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Arg Ser Lys Phe Pro Asn Ser Gly Lys Tyr Ala Thr Thr Ala Arg Asn
 260 265 270
 Ser Phe Ile Val Leu Ile Ile Phe Thr Ile Cys Phe Val Pro Tyr His
 275 280 285
 Ala Phe Arg Phe Ile Tyr Ile Ser Ser Gln Leu Asn Val Ser Ser Cys
 290 295 300
 Tyr Trp Lys Glu Ile Val His Lys Thr Asn Glu Ile Met Leu Val Leu
 305 310 315 320
 Ser Ser Phe Asn Ser Cys Leu Asp Pro Val Met Tyr Phe Leu Met Ser
 325 330 335
 Ser Asn Ile Arg Lys Ile Met Cys Gln Leu Leu Phe Arg Arg Phe Gln
 340 345 350
 Gly Glu Pro Ser Arg Ser Glu Ser Thr Ser Glu Phe Lys Pro Gly Tyr
 355 360 365
 Ser Leu His Asp Thr Ser Val Ala Val Lys Ile Gln Ser Ser Ser Lys
 370 375 380
 Ser Thr
 385 386

<210> 2232
 <211> 104
 <212> PRT
 <213> Homo sapiens

<400> 2232
 Arg Gln Met Ala Leu Leu Lys Ala Asn Lys Asp Leu Ile Ser Ala Gly
 1 5 10 15
 Leu Lys Glu Phe Ser Val Leu Leu Asn Gln Gln Val Phe Asn Asp Pro
 20 25 30
 Leu Val Ser Glu Glu Asp Met Val Thr Val Val Glu Asp Trp Met Asn
 35 40 45
 Phe Tyr Ile Asn Tyr Tyr Arg Gln Gln Val Thr Gly Glu Pro Gln Glu
 50 55 60
 Arg Asp Lys Ala Leu Gln Glu Leu Arg Gln Glu Leu Asn Thr Leu Ala
 65 70 75 80
 Asn Pro Phe Leu Ala Lys Tyr Arg Asp Phe Leu Lys Ser His Glu Leu
 85 90 95
 Pro Ser His Pro Pro Pro Ser Ser
 100 104

<210> 2233
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 2233
 Lys Val Lys Thr Cys Arg Tyr Asn Pro Lys Tyr Ser Ala Ala Asn Asp
 1 5 10 15
 Thr Gly Phe Val Asp Ile Pro Ser Arg Glu Lys Asp Leu Ala Lys Ala
 20 25 30
 Val Ala Thr Val Gly Pro Ile Ser Val Ala Val Gly Ala Ser His Val
 35 40 45
 Phe Phe Gln Phe Tyr Lys Lys Gly Lys His Leu Ser Ser
 50 55 60 61

<210> 2234

<211> 73
 <212> PRT
 <213> Homo sapiens

<400> 2234
 Ala Pro Val Leu Ile Leu Gln Met Val Lys Leu Ser Ile Val Leu Thr
 1 5 10 15
 Pro Gln Phe Leu Ser His Asp Gln Gly Gln Leu Thr Lys Glu Leu Gln
 20 25 30
 Gln His Val Lys Ser Val Thr Cys Pro Cys Glu Tyr Leu Arg Lys Val
 35 40 45
 Ser Glu Cys Arg Gln Met Gly Pro Gly Ala Leu Glu Gln Phe Pro Gly
 50 55 60
 Leu Ser Cys His Thr Ser His Ser Gly
 65 70 73

<210> 2235
 <211> 84
 <212> PRT
 <213> Homo sapiens

<400> 2235
 Pro Ser Arg Gly Lys Met Glu Leu Glu Ala Met Ser Arg Tyr Thr Ser
 1 5 10 15
 Pro Val Asn Pro Ala Val Phe Pro His Leu Thr Val Val Leu Leu Ala
 20 25 30
 Ile Gly Met Phe Phe Thr Ala Trp Phe Phe Val Tyr Glu Val Thr Ser
 35 40 45
 Thr Lys Tyr Thr Arg Asp Ile Tyr Lys Glu Leu Leu Ile Ser Leu Val
 50 55 60
 Ala Ser Leu Phe Met Gly Phe Gly Val Leu Phe Leu Leu Leu Trp Val
 65 70 75 80
 Gly Ile Tyr Val
 84

<210> 2236
 <211> 169
 <212> PRT
 <213> Homo sapiens

<400> 2236
 Ala Pro Glu Asn Pro Phe Ser Arg Gln His Phe Asn Ser Glu Thr Lys
 1 5 10 15
 Val Lys Leu Ser Leu Lys Thr Gly Thr Trp Leu Gly Asn His Ala His
 20 25 30
 Leu Gly Glu His Phe Ser Thr His His Glu Leu Gly Leu Ser Gly Lys
 35 40 45
 Val Val Gly Phe Leu Val Lys Asn Ile Leu Glu Val Ile Arg Asn Gly
 50 55 60
 Gly Met Glu Thr Arg His Pro Gly Lys Val Ser Ser Trp Phe His Arg
 65 70 75 80
 Trp Asp Ser Arg Ala Glu Gln His Asn His Ala Glu His His Glu Asp
 85 90 95
 Val Pro Gln Gly Asp Glu Asp Ser Lys Val Ser Glu Ala Gln Gln Glu
 100 105 110
 Phe Pro Asp Val Val Thr Cys Ala Gly Leu Pro Gly Leu Leu Pro Lys
 115 120 125

Ala Leu Arg Val Leu Leu Phe Gln Leu Lys Val Gln His Arg Pro Gly
 130 135 140
 Ile His Gln Gln Arg Pro Glu Gln Gln Asp Val Ser Asp His Arg Tyr
 145 150 155 160
 Gly Arg Ser Val Arg Gln Asn Arg Lys
 165 169

<210> 2237
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 2237
 Asn Pro Gly Cys Cys Leu Pro Val Ala Met Arg Thr Ser Tyr Leu Leu
 1 5 10 15
 Leu Phe Thr Leu Cys Leu Leu Leu Ser Glu Met Ala Ser Gly Gly Asn
 20 25 30
 Phe Leu Thr Gly Leu Gly His Arg Ser Asp His Tyr Asn Cys Val Ser
 35 40 45
 Ser Gly Gly Gln Cys Leu Tyr Ser Ala Cys Pro Ile Phe Thr Lys Ile
 50 55 60
 Gln Gly Thr Cys Tyr Arg Gly Lys Ala Lys Cys Cys Lys
 65 70 75 77

<210> 2238
 <211> 352
 <212> PRT
 <213> Homo sapiens

<400> 2238
 Ala Pro Ser His Arg Arg Arg Tyr Leu Ser Pro Ser Arg Ser Ala Gly
 1 5 10 15
 Gln Leu Gly Asn Met Ala Leu Glu Arg Leu Cys Ser Val Leu Lys Val
 20 25 30
 Leu Leu Ile Thr Val Leu Val Val Glu Gly Ile Ala Val Ala Gln Lys
 35 40 45
 Thr Gln Asp Gly Gln Asn Ile Gly Ile Lys His Ile Pro Ala Thr Gln
 50 55 60
 Cys Gly Ile Trp Val Arg Thr Ser Asn Gly Gly His Phe Ala Ser Pro
 65 70 75 80
 Asn Tyr Pro Asp Ser Tyr Pro Pro Asn Lys Glu Cys Ile Tyr Ile Leu
 85 90 95
 Glu Ala Ala Pro Arg Gln Arg Ile Glu Leu Thr Phe Asp Glu His Tyr
 100 105 110
 Tyr Ile Glu Pro Ser Phe Glu Cys Arg Phe Asp His Leu Glu Val Arg
 115 120 125
 Asp Gly Pro Phe Gly Phe Ser Pro Leu Ile Asp Arg Tyr Cys Gly Val
 130 135 140
 Lys Ser Pro Pro Leu Ile Arg Ser Thr Gly Arg Phe Met Trp Ile Lys
 145 150 155 160
 Phe Ser Ser Asp Glu Leu Glu Gly Leu Gly Phe Arg Ala Lys Tyr
 165 170 175
 Ser Phe Ile Pro Asp Pro Asp Phe Thr Tyr Leu Gly Gly Ile Leu Asn
 180 185 190
 Pro Ile Pro Asp Cys Gln Phe Glu Leu Ser Gly Ala Asp Gly Ile Val
 195 200 205
 Arg Ser Ser Gln Val Glu Gln Glu Lys Thr Lys Pro Gly Gln Ala
 210 215 220

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Val Asp Cys Ile Trp Thr Ile Lys Ala Thr Pro Lys Ala Lys Ile Tyr
225          230          235          240
Leu Arg Phe Leu Asp Tyr Gln Met Glu His Ser Asn Glu Cys Lys Arg
          245          250          255
Asn Phe Val Ala Val Tyr Asp Gly Ser Ser Ser Ile Glu Asn Leu Lys
          260          265          270
Ala Lys Phe Cys Ser Thr Val Ala Asn Asp Val Met Leu Lys Thr Gly
          275          280          285
Ile Gly Val Ile Arg Met Trp Ala Asp Glu Gly Ser Arg Leu Asn Arg
          290          295          300
Phe Arg Met Leu Phe Thr Ser Phe Gly Gly Ala Ser Pro Ala Gln Ala
305          310          315          320
Ala Leu Ser Phe Cys His Ser Asn Met Cys Ile Asn Asn Ser Leu Val
          325          330          335
Cys Asn Gly Val Gln Asn Cys Ala Tyr Pro Trp Asp Glu Asn His Cys
          340          345          350          352

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<210> 2239
<211> 908
<212> PRT
<213> Homo sapiens

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<400> 2239
Cys His Tyr Ile Met Asn Pro Ser Thr His His Pro Ala Ser Ala Gly
1          5          10          15
Gly Ser Ile Leu Gly Leu Phe Asp Phe Gly Leu Gly Leu Gly Glu
          20          25          30
Met Thr Met Asp Ala Leu Leu Ala Arg Leu Lys Leu Leu Asn Pro Asp
          35          40          45
Asp Leu Arg Glu Glu Ile Val Lys Ala Gly Leu Lys Cys Gly Pro Ile
          50          55          60
Thr Ser Thr Thr Arg Phe Ile Phe Glu Lys Lys Leu Ala Gln Ala Leu
          65          70          75          80
Leu Glu Gln Gly Gly Arg Leu Ser Ser Phe Tyr His His Glu Ala Gly
          85          90          95
Val Thr Ala Leu Ser Gln Asp Pro Gln Arg Ile Leu Lys Pro Ala Glu
          100          105          110
Gly Asn Pro Thr Asp Gln Ala Gly Phe Ser Glu Asp Arg Asp Phe Gly
          115          120          125
Tyr Ser Val Gly Leu Asn Pro Pro Glu Glu Glu Ala Val Thr Ser Lys
          130          135          140
Thr Cys Ser Val Pro Pro Ser Asp Thr Asp Thr Tyr Arg Ala Gly Ala
          145          150          155          160
Thr Ala Ser Lys Glu Pro Pro Leu Tyr Tyr Gly Val Cys Pro Val Tyr
          165          170          175
Glu Asp Val Pro Ala Arg Asn Glu Arg Ile Tyr Val Tyr Glu Asn Lys
          180          185          190
Lys Glu Ala Leu Gln Ala Val Lys Met Ile Lys Gly Ser Arg Phe Lys
          195          200          205
Ala Phe Ser Thr Arg Glu Asp Ala Glu Lys Phe Ala Arg Gly Ile Cys
          210          215          220
Asp Tyr Phe Pro Ser Pro Ser Lys Thr Ser Leu Pro Leu Ser Pro Val
          225          230          235          240
Lys Thr Ala Pro Leu Phe Ser Asn Asp Arg Leu Lys Asp Gly Leu Cys
          245          250          255
Leu Ser Glu Ser Glu Thr Val Asn Lys Glu Arg Ala Asn Ser Tyr Lys
          260          265          270
Asn Pro Arg Thr Gln Asp Leu Thr Ala Lys Leu Arg Lys Ala Val Glu
          275          280          285

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Lys Gly Glu Glu Asp Thr Phe Ser Asp Leu Ile Trp Ser Asn Pro Arg
 290 295 300
 Tyr Leu Ile Gly Ser Gly Asp Asn Pro Thr Ile Val Gln Glu Gly Cys
 305 310 315 320
 Arg Tyr Asn Val Met His Val Ala Ala Lys Glu Asn Gln Ala Ser Ile
 325 330 335
 Cys Gln Leu Thr Leu Asp Val Leu Glu Asn Pro Asp Phe Met Arg Leu
 340 345 350
 Met Tyr Pro Asp Asp Asp Glu Ala Met Leu Gln Lys Arg Ile Arg Tyr
 355 360 365
 Val Val Asp Leu Tyr Leu Asn Thr Pro Asp Lys Met Gly Tyr Asp Thr
 370 375 380
 Pro Leu His Phe Ala Cys Lys Phe Gly Asn Ala Asp Val Val Asn Val
 385 390 395 400
 Leu Ser Ser His His Leu Ile Val Lys Asn Ser Arg Asn Lys Tyr Asp
 405 410 415
 Lys Thr Pro Glu Asp Val Ile Cys Glu Arg Ser Lys Asn Lys Ser Val
 420 425 430
 Glu Leu Lys Glu Arg Ile Arg Glu Tyr Leu Lys Gly His Tyr Tyr Val
 435 440 445
 Pro Leu Leu Arg Ala Glu Glu Thr Ser Ser Pro Val Ile Gly Glu Leu
 450 455 460
 Trp Ser Pro Asp Gln Thr Ala Glu Ala Ser His Val Ser Arg Tyr Gly
 465 470 475 480
 Gly Ser Pro Arg Asp Pro Val Leu Thr Leu Arg Ala Phe Ala Gly Pro
 485 490 495
 Leu Ser Pro Ala Lys Ala Glu Asp Phe Arg Lys Leu Trp Lys Thr Pro
 500 505 510
 Pro Arg Glu Lys Ala Gly Phe Leu His His Val Lys Lys Ser Asp Pro
 515 520 525
 Glu Arg Gly Phe Glu Arg Val Gly Arg Glu Leu Ala His Glu Leu Gly
 530 535 540
 Tyr Pro Trp Val Glu Tyr Trp Glu Phe Leu Gly Cys Phe Val Asp Leu
 545 550 555 560
 Ser Ser Gln Glu Gly Leu Gln Arg Leu Glu Glu Tyr Leu Thr Gln Gln
 565 570 575
 Glu Ile Gly Lys Lys Ala Gln Gln Glu Thr Gly Glu Arg Glu Ala Ser
 580 585 590
 Cys Arg Asp Lys Ala Thr Thr Ser Gly Ser Asn Ser Ile Ser Val Arg
 595 600 605
 Ala Phe Leu Asp Glu Asp Asp Met Ser Leu Glu Glu Ile Lys Asn Arg
 610 615 620
 Gln Asn Ala Ala Arg Asn Asn Ser Pro Pro Thr Val Gly Ala Phe Gly
 625 630 635 640
 His Thr Arg Cys Ser Ala Phe Pro Leu Glu Gln Glu Ala Asp Leu Ile
 645 650 655
 Glu Ala Ala Glu Pro Gly Gly Pro His Ser Ser Arg Asn Gly Leu Cys
 660 665 670
 His Pro Leu Asn His Ser Arg Thr Leu Ala Gly Lys Arg Pro Lys Ala
 675 680 685
 Pro Arg Gly Glu Glu Ala His Leu Pro Pro Val Ser Asp Leu Thr Val
 690 695 700
 Glu Phe Asp Lys Leu Asn Leu Gln Asn Ile Gly Arg Ser Val Ser Lys
 705 710 715 720
 Thr Pro Asp Glu Ser Thr Lys Thr Lys Asp Gln Ile Leu Thr Ser Arg
 725 730 735
 Ile Asn Ala Val Glu Arg Asp Leu Leu Glu Pro Ser Pro Ala Asp Gln
 740 745 750
 Leu Gly Asn Gly His Arg Arg Thr Glu Ser Glu Met Ser Ala Arg Ile
 755 760 765
 Ala Lys Met Ser Leu Ser Pro Ser Ser Pro Arg His Glu Asp Gln Leu
 770 775 780
 Glu Val Thr Arg Glu Pro Ala Arg Arg Leu Phe Leu Phe Gly Glu Glu
 785 790 795 800

```

Pro Ser Lys Leu Asp Gln Asp Val Leu Ala Ala Leu Glu Cys Ala Asp
      805      810      815
Val Asp Pro His Gln Phe Pro Ala Val His Arg Trp Lys Ser Ala Val
      820      825      830
Leu Cys Tyr Ser Pro Ser Asp Arg Gln Ser Trp Pro Ser Pro Ala Val
      835      840      845
Lys Gly Arg Phe Lys Ser Gln Leu Pro Asp Leu Ser Gly Pro His Ser
      850      855      860
Tyr Ser Pro Gly Arg Asn Ser Val Ala Gly Ser Asn Pro Ala Lys Pro
      865      870      875
Gly Leu Gly Ser Pro Gly Arg Tyr Ser Pro Val His Gly Ser Gln Leu
      885      890      895
Arg Arg Met Ala Arg Leu Ala Glu Leu Ala Ala Leu
      900      905      908

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<210> 2240
<211> 30
<212> PRT
<213> Homo sapiens

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<400> 2240
Arg His Met Pro Val Ile Pro Ala Leu Trp Glu Ala Glu Val Gly Gly
 1      5      10      15
Leu Leu Glu Pro Arg Ser Ser Arg Ser Ala Trp Ala Thr Glu
      20      25      30

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<210> 2241
<211> 371
<212> PRT
<213> Homo sapiens

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<400> 2241
Lys Leu Pro Trp Glu Pro Ser Phe Leu Ile Lys Met Gln Ile Ile Arg
 1      5      10      15
His Ser Glu Gln Thr Leu Lys Thr Ala Leu Ile Ser Lys Asn Pro Val
      20      25      30
Leu Val Ser Gln Tyr Glu Lys Leu Asp Ala Gly Glu Gln Arg Leu Met
      35      40      45
Asn Glu Ala Phe Gln Pro Ala Ser Asp Leu Phe Gly Pro Ile Thr Leu
      50      55      60
His Ser Pro Ser Asp Trp Ile Thr Ser His Pro Glu Ala Pro Gln Asp
      65      70      75      80
Phe Glu Gln Phe Phe Ser Asp Pro Tyr Arg Lys Thr Pro Ser Pro Asn
      85      90      95
Lys Arg Ser Ile Tyr Ile Gln Ser Ile Gly Ser Leu Gly Asn Thr Arg
      100      105      110
Ile Ile Ser Glu Glu Tyr Ile Lys Trp Leu Thr Gly Tyr Cys Lys Ala
      115      120      125
Tyr Phe Tyr Gly Leu Arg Val Lys Leu Leu Glu Pro Val Pro Val Ser
      130      135      140
Val Thr Arg Cys Ser Phe Arg Val Asn Glu Asn Thr His Asn Leu Gln
      145      150      155      160
Ile His Ala Gly Asp Ile Leu Lys Phe Leu Lys Lys Lys Pro Glu
      165      170      175
Asp Ala Phe Cys Val Val Gly Ile Thr Met Ile Asp Leu Tyr Pro Arg
      180      185      190
Asp Ser Trp Asn Phe Val Phe Gly Gln Ala Ser Leu Thr Asp Gly Val
      195      200      205

```


Gly Ile Phe Ser Phe Ala Arg Tyr Gly Ser Asp Phe Tyr Ser Met His
 210 215 220
 Tyr Lys Gly Lys Val Lys Lys Leu Lys Lys Thr Ser Ser Ser Asp Tyr
 225 230 235 240
 Ser Ile Phe Asp Asn Tyr Tyr Ile Pro Glu Ile Thr Ser Val Leu Leu
 245 250 255
 Leu Arg Ser Cys Lys Thr Leu Thr His Glu Ile Gly His Ile Phe Gly
 260 265 270
 Leu Arg His Cys Gln Trp Leu Ala Cys Leu Met Gln Gly Ser Asn His
 275 280 285
 Leu Glu Glu Ala Asp Arg Arg Pro Leu Asn Leu Cys Pro Ile Cys Leu
 290 295 300
 His Lys Leu Gln Cys Ala Val Gly Phe Ser Ile Val Glu Arg Tyr Lys
 305 310 315 320
 Ala Leu Val Arg Trp Ile Asp Asp Glu Ser Ser Asp Thr Pro Gly Ala
 325 330 335
 Thr Pro Glu His Ser His Glu Asp Asn Gly Asn Leu Pro Lys Pro Val
 340 345 350
 Glu Ala Phe Lys Glu Trp Lys Glu Trp Ile Ile Lys Cys Leu Ala Val
 355 360 365
 Leu Gln Lys
 370 371

<210> 2242
 <211> 549
 <212> PRT
 <213> Homo sapiens

<400> 2242
 Ser Ala Pro Thr Ala Pro Ala Arg Pro Cys Arg Ala Glu Arg Gly Ser
 1 5 10 15
 Gly Gly Gly Met Leu Ala Leu Leu Ala Ala Ser Val Ala Leu Ala Val
 20 25 30
 Ala Ala Gly Ala Gln Asp Ser Pro Ala Pro Gly Ser Arg Phe Val Cys
 35 40 45
 Thr Ala Leu Pro Pro Glu Ala Val His Ala Gly Cys Pro Leu Pro Ala
 50 55 60
 Met Pro Met Gln Gly Gly Ala Gln Ser Pro Glu Glu Glu Leu Arg Ala
 65 70 75 80
 Ala Val Leu Gln Leu Arg Glu Thr Val Val Gln Gln Lys Glu Thr Leu
 85 90 95
 Ala Ser Ala Arg Ala Ile Arg Glu Leu Thr Gly Lys Leu Ala Arg Cys
 100 105 110
 Glu Gly Leu Ala Gly Gly Lys Ala Arg Gly Ala Gly Ala Thr Gly Lys
 115 120 125
 Asp Thr Met Gly Asp Leu Pro Arg Asp Pro Gly His Val Val Glu Gln
 130 135 140
 Leu Ser Arg Ser Leu Gln Thr Leu Lys Asp Arg Leu Glu Ser Leu Glu
 145 150 155 160
 Pro Leu Pro Ala Met Pro Met Gln Gly Gly Ala Gln Ser Pro Glu Glu
 165 170 175
 Glu Leu Arg Ala Ala Val Leu Gln Leu Arg Glu Thr Val Val Gln Gln
 180 185 190
 Lys Glu Thr Leu Ala Ser Ala Arg Ala Ile Arg Glu Leu Thr Gly Lys
 195 200 205
 Leu Ala Arg Cys Glu Gly Leu Ala Gly Gly Lys Ala Arg Gly Ala Gly
 210 215 220
 Ala Thr Gly Lys Asp Thr Met Gly Asp Leu Pro Arg Asp Pro Gly His
 225 230 235 240
 Val Val Glu Gln Leu Ser Arg Ser Leu Gln Thr Leu Lys Asp Arg Leu
 245 250 255

Glu Ser Leu Glu His Gln Leu Arg Ala Asn Val Ser Asn Ala Gly Leu
 260 265 270
 Pro Gly Asp Phe Arg Glu Val Leu Gln Gln Arg Leu Gly Glu Leu Glu
 275 280 285
 Arg Gln Leu Leu Arg Lys Gly Ala Glu Leu Glu Asp Glu Lys Ser Leu
 290 295 300
 Leu His Asn Glu Thr Ser Ala His Arg Gln Lys Thr Glu Ser Thr Leu
 305 310 315 320
 Asn Ala Leu Leu Gln Arg Val Thr Glu Leu Glu Arg Gly Asn Ser Ala
 325 330 335
 Phe Lys Ser Pro Asn Ala Phe Lys Val Ser Leu Pro Leu Arg Thr Asn
 340 345 350
 Tyr Leu Tyr Gly Lys Ile Lys Lys Thr Leu Pro Glu Leu Tyr Ala Phe
 355 360 365
 Thr Ile Cys Leu Trp Leu Arg Ser Ser Ala Ser Pro Gly Met Gly Thr
 370 375 380
 Pro Phe Ser Tyr Ala Val Pro Gly Gln Ala Asn Glu Ile Val Leu Ile
 385 390 395 400
 Glu Trp Gly Asn Asn Pro Ile Glu Leu Leu Ile Asn Asp Lys Val Ala
 405 410 415
 Gln Leu Pro Leu Phe Val Ser Asp Gly Lys Trp His His Ile Cys Val
 420 425 430
 Thr Trp Thr Thr Arg Asp Gly Met Trp Glu Ala Phe Gln Asp Gly Lys
 435 440 445
 Lys Leu Gly Thr Gly Glu Asn Leu Ala Pro Trp His Pro Ile Lys Pro
 450 455 460
 Gly Gly Val Leu Ile Leu Gly Gln Glu Gln Asp Thr Val Gly Gly Arg
 465 470 475 480
 Phe Asp Ala Thr Gln Ala Phe Val Gly Glu Leu Ser Gln Phe Asn Ile
 485 490 495
 Trp Asp Arg Val Leu Arg Ala Gln Glu Ile Val Asn Ile Ala Asn Cys
 500 505 510
 Ser Thr Asn Met Pro Gly Asn Ile Ile Pro Trp Val Asp Asn Asn Val
 515 520 525
 Asp Val Phe Gly Gly Ala Ser Lys Trp Pro Val Glu Thr Cys Glu Glu
 530 535 540
 Arg Leu Leu Asp Leu
 545 549

<210> 2243
 <211> 378
 <212> PRT
 <213> Homo sapiens

<400> 2243
 Leu Thr Ala Gly Thr Ala Met Asn Tyr Pro Leu Thr Leu Glu Met Asp
 1 5 10 15
 Leu Glu Asn Leu Glu Asp Leu Phe Trp Glu Leu Asp Arg Leu Asp Asn
 20 25 30
 Tyr Asn Asp Thr Ser Leu Val Glu Asn His Leu Cys Pro Ala Thr Glu
 35 40 45
 Gly Pro Leu Met Ala Ser Phe Lys Ala Val Phe Val Pro Val Ala Tyr
 50 55 60
 Ser Leu Ile Phe Leu Leu Gly Val Ile Gly Asn Val Leu Val Leu Val
 65 70 75 80
 Ile Leu Glu Arg His Arg Gln Thr Arg Ser Thr Glu Thr Phe Leu
 85 90 95
 Phe His Leu Ala Val Ala Asp Leu Leu Leu Val Phe Ile Leu Pro Phe
 100 105 110
 Ala Val Ala Glu Gly Ser Val Gly Trp Val Leu Gly Thr Phe Leu Cys
 115 120 125

Lys Thr Val Ile Ala Leu His Lys Val Asn Phe Tyr Cys Ser Ser Leu
 130 135 140
 Leu Leu Ala Cys Ile Ala Val Asp Arg Tyr Leu Ala Ile Val His Ala
 145 150 155 160
 Val His Ala Tyr Arg His Arg Arg Leu Leu Ser Ile His Ile Thr Cys
 165 170 175
 Gly Thr Ile Trp Leu Val Gly Phe Leu Leu Ala Leu Pro Glu Ile Leu
 180 185 190
 Phe Ala Lys Val Ser Gln Gly His His Asn Asn Ser Leu Pro Arg Cys
 195 200 205
 Thr Phe Ser Gln Glu Asn Gln Ala Glu Thr His Ala Trp Phe Thr Ser
 210 215 220
 Arg Phe Leu Tyr His Val Ala Gly Phe Leu Leu Pro Met Leu Val Met
 225 230 235 240
 Gly Trp Cys Tyr Val Gly Val Val His Arg Leu Arg Gln Ala Gln Arg
 245 250 255
 Arg Pro Gln Arg Gln Lys Ala Val Arg Val Ala Ile Leu Val Thr Ser
 260 265 270
 Ile Phe Phe Leu Cys Trp Ser Pro Tyr His Ile Val Ile Phe Leu Asp
 275 280 285
 Thr Leu Ala Arg Leu Lys Ala Val Asp Asn Thr Cys Lys Leu Asn Gly
 290 295 300
 Ser Leu Pro Val Ala Ile Thr Met Cys Glu Phe Leu Gly Leu Ala His
 305 310 315 320
 Cys Cys Leu Asn Pro Met Leu Tyr Thr Phe Ala Gly Val Lys Phe Arg
 325 330 335
 Ser Asp Leu Ser Arg Leu Leu Thr Lys Leu Gly Cys Thr Gly Pro Ala
 340 345 350
 Ser Leu Cys Gln Leu Phe Pro Ser Trp Arg Arg Ser Ser Leu Ser Glu
 355 360 365
 Ser Glu Asn Ala Thr Ser Leu Thr Thr Phe
 370 375 378

<210> 2244
 <211> 127
 <212> PRT
 <213> Homo. sapiens

<400> 2244
 Phe Val Thr Arg Ala Gly Arg Trp Gly Ala Gly Ala Arg Val Arg Gly
 1 5 10 15
 Gly Ala Gly Gly Met Ala Ser Gly Ala Ala Arg Trp Leu Val Leu Ala
 20 25 30
 Pro Val Arg Ser Gly Ala Leu Arg Ser Gly Pro Ser Leu Arg Lys Asp
 35 40 45
 Gly Asp Val Ser Ala Ala Trp Ser Gly Ser Gly Arg Ser Leu Val Pro
 50 55 60
 Ser Arg Ser Val Ile Val Thr Arg Ser Gly Ala Ile Leu Pro Lys Pro
 65 70 75 80
 Val Lys Met Ser Phe Gly Leu Leu Arg Val Phe Ser Ile Val Ile Pro
 85 90 95
 Phe Leu Tyr Val Gly Thr Leu Ile Ser Lys Asn Phe Ala Ala Leu Leu
 100 105 110
 Glu Glu His Asp Ile Phe Val Pro Glu Asp Asp Asp Asp Asp
 115 120 125 127

<210> 2245
 <211> 53
 <212> PRT

<213> Homo sapiens

<400> 2245

```

Ala Pro Tyr Ala His Ser Gln Val His Cys Leu Asp Lys Val Cys Gly
 1              5              10              15
Leu Leu Pro Phe Leu Asn Pro Glu Val Pro Asp Gln Phe Tyr Arg Leu
              20              25              30
Trp Leu Ser Leu Phe Leu His Ala Gly Lys Glu Ala Pro His Cys Pro
              35              40              45
Arg Thr Arg Pro Leu
              50              53

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<210> 2246

<211> 124

<212> PRT

<213> Homo sapiens

<400> 2246

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Ser Pro Ala Trp Trp Asn Ser Gln Gln Arg Val Val Ser Pro Phe Leu
 1              5              10              15
Ala Leu Leu Thr Leu Glu Pro Thr Phe His His Leu Leu Pro Ile Met
              20              25              30
Gln Val Ser Thr Ala Ala Leu Ala Val Leu Leu Cys Thr Met Ala Leu
              35              40              45
Cys Asn Gln Val Leu Ser Ala Pro Leu Ala Ala Asp Thr Pro Thr Ala
              50              55              60
Cys Cys Phe Ser Tyr Thr Ser Arg Gln Ile Pro Gln Asn Phe Ile Ala
              65              70              75              80
Asp Tyr Phe Glu Thr Ser Ser Gln Cys Ser Lys Pro Ser Val Ile Phe
              85              90              95
Leu Thr Lys Arg Gly Arg Gln Val Cys Ala Asp Pro Ser Glu Glu Trp
              100              105              110
Val Gln Lys Tyr Val Ser Asp Leu Glu Leu Ser Ala
              115              120              124

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<210> 2247

<211> 427

<212> PRT

<213> Homo sapiens

<400> 2247

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Arg Pro Arg Arg Arg Gly Thr His His Phe Ser Cys Val Leu Gly Ser
 1              5              10              15
Phe Arg Val Ser Ala Met Phe Pro Arg Val Ser Thr Phe Leu Pro Leu
              20              25              30
Arg Pro Leu Ser Arg His Pro Leu Ser Ser Gly Ser Pro Glu Thr Ser
              35              40              45
Ala Ala Ala Ile Met Leu Leu Thr Val Arg His Gly Thr Val Arg Tyr
              50              55              60
Arg Ser Ser Ala Leu Leu Ala Arg Thr Lys Asn Asn Ile Gln Arg Tyr
              65              70              75              80
Phe Gly Thr Asn Ser Val Ile Cys Ser Lys Lys Asp Lys Gln Ser Val
              85              90              95
Arg Thr Glu Glu Thr Ser Lys Glu Thr Ser Glu Ser Gln Asp Ser Glu
              100              105              110
Lys Glu Asn Thr Lys Lys Asp Leu Leu Gly Ile Ile Lys Gly Met Lys
              115              120              125

```

Val Glu Leu Ser Thr Val Asn Val Arg Thr Thr Lys Pro Pro Lys Arg
 130 135 140
 Arg Pro Leu Lys Ser Leu Glu Ala Thr Leu Gly Arg Leu Arg Arg Ala
 145 150 155 160
 Thr Glu Tyr Ala Pro Lys Lys Arg Ile Glu Pro Leu Ser Pro Glu Leu
 165 170 175
 Val Ala Ala Ala Ser Ala Val Ala Asp Ser Leu Pro Phe Asp Lys Gln
 180 185 190
 Thr Thr Lys Ser Glu Leu Leu Ser Gln Leu Gln Gln His Glu Glu Glu
 195 200 205
 Ser Arg Ala Gln Arg Asp Ala Lys Arg Pro Lys Ile Ser Phe Ser Asn
 210 215 220
 Ile Ile Ser Asp Met Lys Val Ala Arg Ser Ala Thr Ala Arg Val Arg
 225 230 235 240
 Ser Arg Pro Glu Leu Arg Ile Gln Phe Asp Glu Gly Tyr Asp Asn Tyr
 245 250 255
 Pro Gly Gln Glu Lys Thr Asp Asp Leu Lys Lys Arg Lys Asn Ile Phe
 260 265 270
 Thr Gly Lys Arg Leu Asn Ile Phe Asp Met Met Ala Val Thr Lys Glu
 275 280 285
 Ala Pro Glu Thr Asp Thr Ser Pro Ser Leu Trp Asp Val Glu Phe Ala
 290 295 300
 Lys Gln Leu Ala Thr Val Asn Glu Gln Pro Leu Gln Asn Gly Phe Glu
 305 310 315 320
 Glu Leu Ile Gln Trp Thr Lys Glu Gly Lys Leu Trp Glu Phe Pro Ile
 325 330 335
 Asn Asn Glu Ala Gly Phe Asp Asp Asp Gly Ser Glu Phe His Glu His
 340 345 350
 Ile Phe Leu Glu Lys His Leu Glu Ser Phe Pro Lys Gln Gly Pro Ile
 355 360 365
 Arg His Phe Met Glu Leu Val Thr Cys Gly Leu Ser Lys Asn Pro Tyr
 370 375 380
 Leu Ser Val Lys Gln Lys Val Glu His Ile Glu Trp Phe Arg Asn Tyr
 385 390 395 400
 Phe Asn Glu Lys Lys Asp Ile Leu Lys Glu Ser Asn Ile Gln Phe Lys
 405 410 415
 Leu Arg Pro Trp Lys Phe Leu Phe Arg Asn Asn
 420 425 427

<210> 2248

<211> 137

<212> PRT

<213> Homo sapiens

<400> 2248

Ser Cys Gln Thr Thr Gln Pro Pro Ala Gln Ser Cys Ser Thr Gly Thr
 1 5 10 15
 Met Arg Ile Met Leu Leu Phe Thr Ala Ile Leu Ala Phe Ser Leu Ala
 20 25 30
 Gln Ser Phe Gly Ala Val Cys Lys Glu Pro Gln Glu Glu Val Val Pro
 35 40 45
 Gly Gly Gly Arg Ser Lys Arg Asp Pro Asp Leu Tyr Gln Leu Leu Gln
 50 55 60
 Arg Leu Phe Lys Ser His Ser Ser Leu Glu Gly Leu Leu Lys Ala Leu
 65 70 75 80
 Ser Gln Ala Ser Thr Asp Pro Lys Glu Ser Thr Ser Pro Glu Lys Arg
 85 90 95
 Asp Met His Asp Phe Phe Val Gly Leu Met Gly Lys Arg Ser Val Gln
 100 105 110
 Pro Asp Ser Pro Thr Asp Val Asn Gln Glu Asn Val Pro Ser Phe Gly
 115 120 125

Ile Leu Lys Tyr Pro Pro Arg Ala Glu
130 135 137

<210> 2249
<211> 174
<212> PRT
<213> Homo sapiens

<400> 2249
Pro Phe His Leu Gly Ala Ser Ser Asn Thr Phe Arg Leu Gln Val Gln
1 5 10 15
Thr Gln Glu Ser Lys Ala Gln Lys Glu Val Lys Met Gly Phe Ile Phe
20 25 30
Ser Lys Ser Met Asn Glu Ser Met Lys Asn Gln Lys Glu Phe Met Leu
35 40 45
Met Asn Ala Arg Leu Gln Leu Glu Arg Gln Leu Ile Met Gln Ser Glu
50 55 60
Met Arg Glu Arg Gln Met Ala Met Gln Ile Ala Trp Ser Arg Glu Phe
65 70 75 80
Leu Lys Tyr Phe Gly Thr Phe Phe Gly Leu Ala Ala Ile Ser Leu Thr
85 90 95
Ala Gly Ala Ile Lys Lys Lys Lys Pro Ala Phe Leu Val Pro Ile Val
100 105 110
Pro Leu Ser Phe Ile Leu Thr Tyr Gln Tyr Asp Leu Gly Tyr Gly Thr
115 120 125
Leu Leu Glu Arg Met Lys Gly Glu Ala Glu Asp Ile Leu Glu Thr Glu
130 135 140
Lys Ser Lys Leu Gln Leu Pro Arg Gly Met Ile Thr Phe Glu Ser Ile
145 150 155 160
Glu Lys Ala Arg Lys Glu Gln Ser Arg Phe Phe Ile Asp Lys
165 170 174

<210> 2250
<211> 388
<212> PRT
<213> Homo sapiens

<400> 2250
Val Trp Leu Pro Leu Lys Ser Tyr Lys Ile Arg Ser Pro Ser Leu His
1 5 10 15
Cys Gln Cys Glu Ile Phe Arg Glu Glu Phe Leu Phe Ser Ser Leu Gln
20 25 30
Glu Gly Arg Asp Lys Asp Thr Phe Ser Lys Met Ala Met Val Ser Glu
35 40 45
Phe Leu Lys Gln Ala Trp Phe Ile Glu Asn Glu Glu Gln Glu Tyr Val
50 55 60
Gln Thr Val Lys Ser Ser Lys Gly Gly Pro Gly Ser Ala Val Ser Pro
65 70 75 80
Tyr Pro Thr Phe Asn Pro Ser Ser Asp Val Ala Ala Leu His Lys Ala
85 90 95
Ile Met Val Lys Gly Val Asp Glu Ala Thr Ile Ile Asp Ile Leu Thr
100 105 110
Lys Arg Asn Asn Ala Gln Arg Gln Gln Ile Lys Ala Ala Tyr Leu Gln
115 120 125
Glu Thr Gly Lys Pro Leu Asp Glu Thr Leu Lys Lys Ala Leu Thr Gly
130 135 140
His Leu Glu Glu Val Val Leu Ala Leu Leu Lys Thr Pro Ala Gln Phe
145 150 155 160

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<210> 2251
<211> 268
<212> PRT
<213> Homo sapiens
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1320

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Thr Pro Thr Pro Ala Ser Asp Ala Phe Gln Arg Lys Leu Glu Gly Cys
      195                200                205
Arg Phe Leu His Gly Tyr His Arg Phe Met His Ser Val Gly Arg Val
      210                215                220
Phe Ser Lys Trp Gly Glu Ser Pro Asn Arg Ser Arg Arg His Ser Pro
225                230                235                240
His Gln Ala Leu Arg Lys Gly Val Arg Arg Thr Arg Pro Ser Arg Lys
      245                250                255
Gly Lys Arg Leu Met Thr Arg Gly Gln Leu Pro Arg
      260                265                268

```

<210> 2252
 <211> 275
 <212> PRT
 <213> Homo sapiens

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<400> 2252
Thr Ala Ala Arg Arg Arg Gln Lys Gly Thr Ala Ala Arg Arg Leu Gln
  1                5                10                15
Lys Gly Thr Ala Ala Arg Arg Arg Gln Lys Gly Thr Ala Ala Arg Arg
      20                25                30
Arg Gln Lys Gly Thr Ala Ala Arg Arg Pro Gln Lys Gly Thr Ala Ala
      35                40                45
Arg Arg Arg Gln Lys Gly Thr Ala Ala Arg Arg Arg Gln Lys Gly Thr
      50                55                60
Ala Ala Arg Arg Arg Gln Lys Gly Thr Ala Ala Arg Arg Pro Gln Lys
      65                70                75                80
Gly Thr Ala Ala Arg Arg Arg Gln Lys Gly Thr Ala Ala Arg Arg Arg
      85                90                95
Gln Lys Gly Thr Ala Ala Arg Arg Arg Gln Lys Gly Leu Ala Ile Ala
      100                105                110
Ser Arg Gly Cys Pro Cys Ala Ser Arg Ala Gly Gly Val Arg Gly Ala
      115                120                125
Gly Ser Arg Leu Arg Ala Met Ala Pro Lys Val Phe Arg Gln Tyr Trp
      130                135                140
Asp Ile Pro Asp Gly Thr Asp Cys His Arg Lys Ala Tyr Ser Thr Thr
      145                150                155                160
Ser Ile Ala Ser Val Ala Gly Leu Thr Ala Ala Ala Tyr Arg Val Thr
      165                170                175
Leu Asn Pro Pro Gly Thr Phe Leu Glu Gly Val Ala Lys Val Gly Gln
      180                185                190
Tyr Thr Phe Thr Ala Ala Ala Val Gly Ala Val Phe Gly Leu Thr Thr
      195                200                205
Cys Ile Ser Ala His Val Arg Glu Lys Pro Asp Asp Pro Leu Asn Tyr
      210                215                220
Phe Leu Gly Gly Cys Ala Gly Gly Leu Thr Leu Gly Ala Arg Thr His
      225                230                235                240
Asn Tyr Gly Ile Gly Ala Ala Ala Cys Val Tyr Phe Gly Ile Ala Ala
      245                250                255
Ser Leu Val Lys Met Gly Arg Leu Glu Gly Trp Glu Val Phe Ala Lys
      260                265                270
Pro Lys Val
      275

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<210> 2253
 <211> 194
 <212> PRT
 <213> Homo sapiens

<400> 2253
 Pro Trp Leu Pro Trp Ser Asp Gly Arg Ala Ala Arg Ser Ser Arg Lys
 1 5 10 15
 Cys Pro Arg Ser Arg Phe Pro Val Gln Val Gly Lys Met Ala Val Ser
 20 25 30
 Thr Val Phe Ser Thr Ser Ser Leu Met Leu Ala Leu Ser Arg His Ser
 35 40 45
 Leu Leu Ser Pro Leu Leu Ser Val Thr Ser Phe Arg Arg Phe Tyr Arg
 50 55 60
 Gly Asp Ser Pro Thr Asp Ser Gln Lys Asp Met Ile Glu Ile Pro Leu
 65 70 75 80
 Pro Pro Trp Gln Glu Arg Thr Asp Glu Ser Ile Glu Thr Lys Arg Ala
 85 90 95
 Arg Leu Leu Tyr Glu Ser Arg Lys Arg Gly Met Leu Glu Asn Cys Ile
 100 105 110
 Leu Leu Ser Leu Phe Ala Lys Glu His Leu Gln His Met Thr Glu Lys
 115 120 125
 Gln Leu Asn Leu Tyr Asp Arg Leu Ile Asn Glu Pro Ser Asn Asp Trp
 130 135 140
 Asp Ile Tyr Tyr Trp Ala Thr Glu Ala Lys Pro Ala Pro Glu Ile Phe
 145 150 155 160
 Glu Asn Glu Val Met Ala Leu Leu Arg Asp Phe Ala Lys Asn Lys Asn
 165 170 175
 Lys Glu Gln Arg Leu Arg Ala Pro Asp Leu Glu Tyr Leu Phe Glu Lys
 180 185 190
 Pro Arg
 194

<210> 2254

<211> 260

<212> PRT

<213> Homo sapiens

<400> 2254
 Gly Ala Gly Arg Ala Leu Gly His Leu Glu Thr Gly Ala Gly Asp Val
 1 5 10 15
 Ala Ala Ala Leu Pro Ala Arg Lys Phe Pro Arg Ser Leu Leu Gly Ala
 20 25 30
 Gly Ala Arg Leu Thr Gly Trp Thr Met Asn Val Phe Arg Ile Leu Gly
 35 40 45
 Asp Leu Ser His Leu Leu Ala Met Ile Leu Leu Leu Gly Lys Ile Trp
 50 55 60
 Arg Ser Lys Cys Cys Lys Gly Ile Ser Gly Lys Ser Gln Ile Leu Phe
 65 70 75 80
 Ala Leu Val Phe Thr Thr Arg Tyr Leu Asp Leu Phe Thr Asn Phe Ile
 85 90 95
 Ser Ile Tyr Asn Thr Val Met Lys Val Val Phe Leu Leu Cys Ala Tyr
 100 105 110
 Val Thr Val Tyr Met Ile Tyr Gly Lys Phe Arg Lys Thr Phe Asp Ser
 115 120 125
 Glu Asn Asp Thr Phe Arg Leu Glu Phe Leu Leu Val Pro Val Ile Gly
 130 135 140
 Leu Ser Phe Leu Glu Asn Tyr Ser Phe Thr Leu Leu Glu Ile Leu Trp
 145 150 155 160
 Thr Phe Ser Ile Tyr Leu Glu Ser Val Ala Ile Leu Pro Gln Leu Phe
 165 170 175
 Met Ile Ser Lys Thr Gly Glu Ala Glu Thr Ile Thr Thr His Tyr Leu
 180 185 190
 Phe Phe Leu Gly Leu Tyr Arg Ala Leu Tyr Leu Ala Asn Trp Ile Arg
 195 200 205

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Arg Tyr Gln Thr Glu Asn Phe Tyr Asp Gln Ile Ala Val Val Ser Gly
 210          215          220
Val Val Gln Thr Ile Phe Tyr Cys Asp Phe Phe Tyr Leu Tyr Val Thr
 225          230          235          240
Lys Gly Arg Ser Trp Asp Asp Ser Asn Ala Asp Thr Gly Leu Arg Ser
          245          250          255
Tyr Ser Ser Ile
          260

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<210> 2255
<211> 172
<212> PRT
<213> Homo sapiens

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<400> 2255
Leu Ser Asn Lys Asp Val Leu Ser Pro Gln Leu Lys Asp Glu Asn Ser
 1          5          10          15
Lys Leu Arg Arg Lys Leu Asn Glu Val Gln Ser Phe Ser Glu Ala Gln
 20          25          30
Thr Glu Met Val Arg Thr Leu Glu Arg Lys Leu Glu Ala Lys Met Ile
 35          40          45
Lys Glu Glu Ser Asp Tyr His Asp Leu Glu Ser Val Val Gln Gln Val
 50          55          60
Glu Gln Asn Leu Glu Leu Met Thr Lys Arg Ala Val Lys Ala Glu Asn
 65          70          75          80
His Val Val Lys Leu Lys Gln Glu Ile Ser Leu Leu Gln Ala Gln Val
 85          90          95
Ser Asn Phe Gln Arg Glu Asn Glu Ala Leu Arg Cys Gly Gln Gly Ala
 100          105          110
Ser Leu Thr Val Val Lys Gln Asn Ala Asp Val Ala Leu Gln Asn Leu
 115          120          125
Arg Val Val Met Asn Ser Ala Gln Ala Ser Ile Glu Gln Leu Val Ser
 130          135          140
Gly Ala Glu Thr Leu Asn Leu Val Ala Glu Ile Leu Lys Ser Ile Asp
 145          150          155          160
Arg Ile Ser Glu Val Lys Asp Glu Glu Glu Asp Ser
          165          170          172

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<210> 2256
<211> 486
<212> PRT
<213> Homo sapiens

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<400> 2256
Asp Ser Pro Arg Asn Arg Phe Glu Ile Leu Gly Arg Pro Thr Arg Thr
 1          5          10          15
Pro Thr Arg Pro Gly Pro Arg Pro Ala Met Glu Asp Leu Asp Ala Leu
 20          25          30
Leu Ser Asp Leu Glu Thr Thr Thr Ser His Met Pro Arg Ser Gly Ala
 35          40          45
Pro Lys Glu Arg Pro Ala Glu Pro Leu Thr Pro Pro Pro Ser Tyr Gly
 50          55          60
His Gln Pro Gln Thr Gly Ser Gly Glu Ser Ser Gly Ala Ser Gly Asp
 65          70          75          80
Lys Asp His Leu Tyr Ser Thr Val Cys Lys Pro Arg Ser Pro Lys Pro
 85          90          95
Ala Ala Pro Ala Ala Pro Pro Phe Ser Ser Ser Ser Gly Val Leu Gly
 100          105          110

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Thr Gly Leu Cys Glu Leu Asp Arg Leu Leu Gln Glu Leu Asn Ala Thr
 115 120 125
 Gln Phe Asn Ile Thr Asp Glu Ile Met Ser Gln Phe Pro Ser Ser Lys
 130 135 140
 Val Ala Ser Gly Glu Gln Lys Glu Asp Gln Ser Glu Asp Lys Lys Arg
 145 150 155 160
 Pro Ser Leu Pro Ser Ser Pro Ser Pro Gly Leu Pro Lys Ala Ser Ala
 165 170 175
 Thr Ser Ala Thr Leu Glu Leu Asp Arg Leu Met Ala Ser Leu Ser Asp
 180 185 190
 Phe Arg Val Gln Asn His Leu Pro Ala Ser Gly Pro Thr Gln Pro Pro
 195 200 205
 Val Val Ser Ser Thr Asn Glu Gly Ser Pro Ser Pro Pro Glu Pro Thr
 210 215 220
 Gly Lys Gly Ser Leu Asp Thr Met Leu Gly Leu Leu Gln Ser Asp Leu
 225 230 235 240
 Ser Arg Arg Gly Val Pro Thr Gln Ala Lys Gly Leu Cys Gly Ser Cys
 245 250 255
 Asn Lys Pro Ile Ala Gly Gln Val Val Thr Ala Leu Gly Arg Ala Trp
 260 265 270
 His Pro Glu His Phe Val Cys Gly Gly Cys Ser Thr Ala Leu Gly Gly
 275 280 285
 Ser Ser Phe Phe Glu Lys Asp Gly Ala Pro Phe Cys Pro Glu Cys Tyr
 290 295 300
 Phe Glu Arg Phe Ser Pro Arg Cys Gly Phe Cys Asn Gln Pro Ile Arg
 305 310 315 320
 His Lys Met Val Thr Ala Leu Gly Thr His Trp His Pro Glu His Phe
 325 330 335
 Cys Cys Val Ser Cys Gly Glu Pro Phe Gly Asp Glu Gly Phe His Glu
 340 345 350
 Arg Glu Gly Arg Pro Tyr Cys Arg Arg Asp Phe Leu Gln Leu Phe Ala
 355 360 365
 Pro Arg Cys Gln Gly Cys Gln Gly Pro Ile Leu Asp Asn Tyr Ile Ser
 370 375 380
 Ala Leu Ser Ala Leu Trp His Pro Asp Cys Phe Val Cys Arg Glu Cys
 385 390 395 400
 Phe Ala Pro Phe Ser Gly Gly Ser Phe Phe Glu His Glu Gly Arg Pro
 405 410 415
 Leu Cys Glu Asn His Phe His Ala Arg Arg Gly Ser Leu Cys Ala Thr
 420 425 430
 Cys Gly Leu Pro Val Thr Gly Arg Cys Val Ser Ala Leu Gly Arg Arg
 435 440 445
 Phe His Pro Asp His Phe Thr Cys Thr Phe Cys Leu Arg Pro Leu Thr
 450 455 460
 Lys Gly Ser Phe Gln Glu Arg Ala Gly Lys Pro Tyr Cys Gln Pro Cys
 465 470 475 480
 Phe Leu Lys Leu Phe Gly
 485 486

<210> 2257

<211> 40

<212> PRT

<213> Homo sapiens

<400> 2257

Phe Ile Tyr Val Asn Gln Ser Phe Ala Pro Ser Pro Asp Gln Glu Val
 1 5 10 15
 Gly Thr Leu Tyr Glu Cys Phe Gly Ser Asp Gly Lys Leu Val Leu His
 20 25 30
 Tyr Cys Lys Ser Gln Ala Trp Gly
 35 40

<210> 2258
 <211> 354
 <212> PRT
 <213> Homo sapiens

<400> 2258
 Lys Leu Ser Cys Pro Cys Ser His Gly Thr Arg Val Thr Ala Val Arg
 1 5 10 15
 Gly Pro Arg Leu Lys Ala Gly Val Gln Trp His Asp Leu Gly Ser Leu
 20 25 30
 Gln Pro Pro Pro Ser Gly Leu Lys Gln Ser Ser His Leu Ser Leu Ser
 35 40 45
 Ser Ser Trp Asp Phe Arg His Ala Pro Thr His Pro Glu Thr Tyr Thr
 50 55 60
 Cys Pro Lys Met Ile Glu Met Glu Gln Ala Glu Ala Gln Leu Ala Glu
 65 70 75 80
 Leu Asp Leu Leu Ala Ser Met Phe Pro Gly Glu Asn Glu Leu Ile Val
 85 90 95
 Asn Asp Gln Leu Ala Val Ala Glu Leu Lys Asp Cys Ile Glu Lys Lys
 100 105 110
 Thr Met Glu Gly Arg Ser Ser Lys Val Tyr Phe Thr Ile Asn Met Asn
 115 120 125
 Leu Asp Val Ser Asp Glu Lys Met Ala Met Phe Ser Leu Ala Cys Ile
 130 135 140
 Leu Pro Phe Lys Tyr Pro Ala Val Leu Pro Glu Ile Thr Val Arg Ser
 145 150 155 160
 Val Leu Leu Ser Arg Ser Gln Gln Thr Gln Leu Asn Thr Asp Leu Thr
 165 170 175
 Ala Phe Leu Gln Lys His Cys His Gly Asp Val Cys Ile Leu Asn Ala
 180 185 190
 Thr Glu Trp Val Arg Glu His Ala Ser Gly Tyr Val Ser Arg Asp Thr
 195 200 205
 Ser Ser Ser Pro Thr Thr Gly Ser Thr Val Gln Ser Val Asp Leu Ile
 210 215 220
 Phe Thr Arg Leu Trp Ile Tyr Ser His His Ile Tyr Asn Lys Cys Lys
 225 230 235 240
 Arg Lys Asn Ile Leu Glu Trp Ala Lys Glu Leu Ser Leu Ser Gly Phe
 245 250 255
 Ser Met Pro Gly Lys Pro Gly Val Val Cys Val Glu Gly Pro Gln Ser
 260 265 270
 Ala Cys Glu Glu Phe Trp Ala Arg Leu Arg Lys Leu Asn Trp Lys Arg
 275 280 285
 Ile Leu Ile Arg His Arg Glu Asp Ile Pro Phe Asp Gly Thr Asn Asp
 290 295 300
 Glu Thr Glu Arg Gln Arg Lys Phe Ser Ile Phe Glu Glu Lys Val Phe
 305 310 315 320
 Ser Val Asn Gly Ala Arg Gly Asn His Met Asp Phe Gly Gln Leu Tyr
 325 330 335
 Gln Phe Leu Asn Thr Lys Gly Cys Gly Asp Val Phe Gln Met Phe Leu
 340 345 350
 Trp Val
 354

<210> 2259
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 2259
 Glu Gly Ile Cys Val Tyr Thr Phe Ile Tyr Val His Met Tyr Thr Arg
 1 5 10 15
 Thr Cys Met His Thr Tyr Pro Tyr Met Tyr Met Asn Ser Val Leu Ile
 20 25 30
 Ser Ser Glu Ile Leu Leu Ile Pro Ser Lys Tyr Leu Phe Glu Ser Lys
 35 40 45 48

<210> 2260
 <211> 1554
 <212> PRT
 <213> Homo sapiens

<400> 2260
 Gly Ala Leu Thr Trp Ser His Pro Leu Leu Ala Val Cys Pro Gln Gly
 1 5 10 15
 Val Trp Leu Gly Ser Thr Pro Ser Gly Ser Pro Ala Leu Leu Pro Pro
 20 25 30
 Ser His Arg Val Asn Ala Glu Pro Gly Cys Val Val Thr Asn Ala Cys
 35 40 45
 Ala Ser Gly Pro Cys Pro Pro His Ala Asn Cys Arg Asp Leu Trp Gln
 50 55 60
 Thr Phe Ser Cys Thr Cys Gln Pro Gly Tyr Tyr Gly Pro Gly Cys Val
 65 70 75 80
 Asp Ala Cys Leu Leu Asn Pro Cys Gln Asn Gln Gly Ser Cys Arg His
 85 90 95
 Leu Pro Gly Ala Pro His Gly Tyr Thr Cys Asp Cys Val Gly Gly Tyr
 100 105 110
 Phe Gly His His Cys Glu His Arg Met Asp Gln Gln Cys Pro Arg Gly
 115 120 125
 Trp Trp Gly Ser Pro Thr Cys Gly Pro Cys Asn Cys Asp Val His Lys
 130 135 140
 Gly Phe Asp Pro Asn Cys Asn Lys Thr Asn Gly Gln Cys His Cys Lys
 145 150 155 160
 Glu Phe His Tyr Arg Pro Arg Gly Ser Asp Ser Cys Leu Pro Cys Asp
 165 170 175
 Cys Tyr Pro Val Gly Ser Thr Ser Arg Ser Cys Ala Pro His Ser Gly
 180 185 190
 Gln Cys Pro Cys Arg Pro Gly Ala Leu Gly Arg Gln Cys Asn Ser Cys
 195 200 205
 Asp Ser Pro Phe Ala Glu Val Thr Ala Ser Gly Cys Arg Val Leu Tyr
 210 215 220
 Asp Ala Cys Pro Lys Ser Leu Arg Ser Gly Val Trp Trp Pro Gln Thr
 225 230 235 240
 Lys Phe Gly Val Leu Ala Thr Val Pro Cys Pro Arg Gly Ala Leu Gly
 245 250 255
 Leu Arg Gly Ala Gly Ala Ala Val Arg Leu Cys Asp Glu Ala Gln Gly
 260 265 270
 Trp Leu Glu Pro Asp Leu Phe Asn Cys Thr Ser Pro Ala Phe Arg Glu
 275 280 285
 Leu Ser Leu Leu Leu Asp Gly Leu Glu Leu Asn Lys Thr Ala Leu Asp
 290 295 300
 Thr Met Glu Ala Lys Lys Leu Ala Gln Arg Leu Arg Glu Val Thr Gly
 305 310 315 320
 His Thr Asp His Tyr Phe Ser Gln Asp Val Arg Val Thr Ala Arg Leu
 325 330 335
 Leu Ala His Leu Leu Ala Phe Glu Ser His Gln Gln Gly Phe Gly Leu
 340 345 350

Thr Ala Thr Gln Asp Ala His Phe Asn Glu Asn Leu Leu Trp Ala Gly
 355 360 365
 Ser Ala Leu Leu Ala Pro Glu Thr Gly Asp Leu Trp Ala Ala Leu Gly
 370 375 380
 Gln Arg Ala Pro Gly Gly Ser Pro Gly Ser Ala Gly Leu Val Arg His
 385 390 395 400
 Leu Glu Glu Tyr Ala Ala Thr Leu Ala Arg Asn Met Glu Leu Thr Tyr
 405 410 415
 Leu Asn Pro Met Gly Leu Val Thr Pro Asn Ile Met Leu Ser Ile Asp
 420 425 430
 Arg Met Glu His Pro Ser Ser Pro Arg Gly Ala Arg Arg Tyr Pro Arg
 435 440 445
 Tyr His Ser Asn Leu Phe Arg Gly Gln Asp Ala Trp Asp Pro His Thr
 450 455 460
 His Val Leu Leu Pro Ser Gln Ser Pro Arg Pro Ser Pro Ser Glu Val
 465 470 475 480
 Leu Pro Thr Ser Ser Ser Ile Glu Asn Ser Thr Thr Ser Ser Val Val
 485 490 495
 Pro Pro Pro Ala Pro Pro Glu Pro Glu Pro Gly Ile Ser Ile Ile Ile
 500 505 510
 Leu Leu Val Tyr Arg Thr Leu Gly Gly Leu Leu Pro Ala Gln Phe Gln
 515 520 525
 Ala Glu Arg Arg Gly Ala Arg Leu Pro Gln Asn Pro Val Met Asn Ser
 530 535 540
 Pro Val Val Ser Val Ala Val Phe His Gly Arg Asn Phe Leu Arg Gly
 545 550 555 560
 Ile Leu Glu Ser Pro Ile Ser Leu Glu Phe Arg Leu Leu Gln Thr Ala
 565 570 575
 Asn Arg Ser Lys Ala Ile Cys Val Gln Trp Asp Pro Pro Gly Leu Ala
 580 585 590
 Glu Gln His Gly Val Trp Thr Ala Arg Asp Cys Glu Leu Val His Arg
 595 600 605
 Asn Gly Ser His Ala Arg Cys Arg Cys Ser Arg Thr Gly Thr Phe Gly
 610 615 620
 Val Leu Met Asp Ala Ser Pro Arg Glu Arg Leu Glu Gly Asp Leu Glu
 625 630 635 640
 Leu Leu Ala Val Phe Thr His Val Val Val Ala Val Ser Val Ala Ala
 645 650 655
 Leu Val Leu Thr Ala Ala Ile Leu Leu Ser Leu Arg Ser Leu Lys Ser
 660 665 670
 Asn Val Arg Gly Ile His Ala Asn Val Ala Ala Ala Leu Gly Val Ala
 675 680 685
 Glu Leu Leu Phe Leu Leu Gly Ile His Arg Thr His Asn Gln Leu Val
 690 695 700
 Cys Thr Ala Val Val Ile Leu Leu His Tyr Phe Phe Leu Ser Thr Phe
 705 710 715 720
 Ala Trp Leu Phe Val Gln Gly Leu His Leu Tyr Arg Met Gln Val Glu
 725 730 735
 Pro Arg Asn Val Asp Arg Gly Ala Met Arg Phe Tyr His Ala Leu Gly
 740 745 750
 Trp Gly Val Pro Ala Val Leu Leu Gly Leu Ala Val Gly Leu Asp Pro
 755 760 765
 Glu Gly Tyr Gly Asn Pro Asp Phe Cys Trp Ile Ser Val His Glu Pro
 770 775 780
 Leu Ile Trp Ser Phe Ala Gly Pro Val Val Leu Val Ile Val Met Asn
 785 790 795 800
 Gly Thr Met Phe Leu Leu Ala Ala Arg Thr Ser Cys Ser Thr Gly Gln
 805 810 815
 Arg Glu Ala Lys Lys Thr Ser Ala Leu Thr Leu Arg Ser Ser Phe Leu
 820 825 830
 Leu Leu Leu Leu Val Ser Ala Ser Trp Leu Phe Gly Leu Leu Ala Val
 835 840 845
 Asn His Ser Ile Leu Ala Phe His Tyr Leu His Ala Gly Leu Cys Gly
 850 855 860

Leu Gln Gly Leu Ala Val Leu Leu Leu Phe Cys Val Leu Asn Ala Asp
 865 870 875 880
 Ala Arg Ala Ala Trp Met Pro Ala Cys Leu Gly Arg Lys Ala Ala Pro
 885 890 895
 Glu Glu Ala Arg Pro Ala Pro Gly Leu Gly Pro Gly Ala Tyr Asn Asn
 900 905 910
 Thr Ala Leu Phe Glu Glu Ser Gly Leu Ile Arg Ile Thr Leu Gly Ala
 915 920 925
 Ser Thr Val Ser Ser Val Ser Ser Ala Arg Ser Gly Arg Thr Gln Asp
 930 935 940
 Gln Asp Ser Gln Arg Gly Arg Ser Tyr Leu Arg Asp Asn Val Leu Val
 945 950 955 960
 Arg His Gly Ser Ala Ala Asp His Thr Asp His Ser Leu Gln Ala His
 965 970 975
 Ala Gly Pro Thr Asp Leu Asp Val Ala Met Phe His Arg Asp Ala Gly
 980 985 990
 Ala Asp Ser Asp Ser Asp Ser Asp Leu Ser Leu Glu Glu Glu Arg Ser
 995 1000 1005
 Leu Ser Ile Pro Ser Ser Glu Ser Glu Asp Asn Gly Arg Thr Arg Gly
 1010 1015 1020
 Arg Phe Gln Arg Pro Leu Cys Arg Ala Ala Gln Ser Glu Arg Leu Leu
 1025 1030 1035 1040
 Thr His Pro Lys Asp Val Asp Gly Asn Asp Leu Leu Ser Tyr Trp Pro
 1045 1050 1055
 Ala Leu Gly Glu Cys Glu Ala Ala Pro Cys Ala Leu Gln Thr Trp Gly
 1060 1065 1070
 Ser Glu Arg Arg Leu Gly Leu Asp Thr Ser Lys Asp Ala Ala Asn Asn
 1075 1080 1085
 Asn Gln Pro Asp Pro Ala Leu Thr Ser Gly Asp Glu Thr Ser Leu Gly
 1090 1095 1100
 Arg Ala Gln Arg Gln Arg Lys Gly Ile Leu Lys Asn Arg Leu Gln Tyr
 1105 1110 1115 1120
 Pro Leu Val Pro Gln Thr Arg Gly Ala Pro Glu Leu Ser Trp Cys Arg
 1125 1130 1135
 Ala Ala Thr Leu Gly His Arg Ala Val Pro Ala Ala Ser Tyr Gly Arg
 1140 1145 1150
 Ile Tyr Ala Gly Gly Gly Thr Gly Ser Leu Ser Gln Pro Ala Ser Arg
 1155 1160 1165
 Tyr Ser Ser Arg Glu Gln Leu Asp Leu Leu Leu Arg Arg Gln Leu Ser
 1170 1175 1180
 Arg Glu Arg Leu Glu Glu Ala Pro Ala Pro Val Leu Arg Pro Leu Ser
 1185 1190 1195 1200
 Arg Pro Gly Ser Gln Glu Cys Met Asp Ala Ala Pro Gly Arg Leu Glu
 1205 1210 1215
 Pro Lys Asp Arg Gly Ser Thr Leu Pro Arg Arg Gln Pro Pro Arg Asp
 1220 1225 1230
 Tyr Pro Gly Ala Met Ala Gly Arg Phe Gly Ser Arg Asp Ala Leu Asp
 1235 1240 1245
 Leu Gly Ala Pro Arg Glu Trp Leu Ser Thr Leu Pro Pro Pro Arg Arg
 1250 1255 1260
 Thr Arg Asp Leu Asp Pro Gln Pro Pro Pro Leu Pro Leu Ser Pro Gln
 1265 1270 1275 1280
 Arg Gln Leu Ser Arg Asp Pro Leu Leu Pro Ser Arg Pro Leu Asp Ser
 1285 1290 1295
 Leu Ser Arg Ser Ser Asn Ser Arg Glu Gln Leu Asp Gln Val Pro Ser
 1300 1305 1310
 Arg His Pro Ser Arg Glu Ala Leu Gly Pro Leu Pro Gln Leu Leu Arg
 1315 1320 1325
 Ala Arg Glu Asp Ser Val Ser Gly Pro Ser His Gly Pro Ser Thr Glu
 1330 1335 1340
 Gln Leu Asp Ile Leu Ser Ser Ile Leu Ala Ser Phe Asn Ser Ser Ala
 1345 1350 1355 1360
 Leu Ser Ser Val Gln Ser Ser Ser Thr Pro Leu Gly Pro His Thr Thr
 1365 1370 1375

Ala Thr Pro Ser Ala Thr Ala Ser Val Leu Gly Pro Ser Thr Pro Arg
 1380 1385 1390
 Ser Ala Thr Ser His Ser Ile Ser Glu Leu Ser Pro Asp Ser Glu Pro
 1395 1400 1405
 Arg Asp Thr Gln Ala Leu Leu Ser Ala Thr Gln Ala Met Asp Leu Arg
 1410 1415 1420
 Arg Arg Asp Tyr His Met Glu Arg Pro Leu Leu Asn Gln Glu His Leu
 1425 1430 1435 1440
 Glu Glu Leu Gly Arg Trp Gly Ser Ala Pro Arg Thr His Gln Trp Arg
 1445 1450 1455
 Thr Trp Leu Gln Cys Ser Arg Ala Arg Ala Tyr Ala Leu Leu Gln
 1460 1465 1470
 His Leu Pro Val Leu Val Trp Leu Pro Arg Tyr Pro Val Arg Asp Trp
 1475 1480 1485
 Leu Leu Gly Asp Leu Leu Ser Gly Leu Ser Val Ala Ile Met Gln Leu
 1490 1495 1500
 Pro Gln Gly Leu Ala Tyr Ala Leu Leu Ala Gly Leu Pro Pro Val Phe
 1505 1510 1515 1520
 Gly Leu Tyr Ser Ser Phe Tyr Pro Val Phe Ile Tyr Phe Leu Phe Gly
 1525 1530 1535
 Thr Ser Arg His Ile Ser Val Glu Ser Leu Cys Val Pro Gly Pro Val
 1540 1545 1550
 Asp Thr
 1554

<210> 2261
 <211> 261
 <212> PRT
 <213> Homo sapiens

<400> 2261
 Glu Phe Gly Thr Ser Arg Ser Ser Arg Ser Met Ala Glu Asp Leu Gly
 1 5 10 15
 Leu Ser Phe Gly Glu Thr Ala Ser Val Glu Met Leu Pro Glu His Gly
 20 25 30
 Ser Cys Arg Pro Lys Ala Arg Ser Ser Ser Ala Arg Trp Ala Leu Thr
 35 40 45
 Cys Cys Leu Val Leu Leu Pro Phe Leu Ala Gly Leu Thr Thr Tyr Leu
 50 55 60
 Leu Val Ser Gln Leu Arg Ala Gln Gly Glu Ala Cys Val Gln Phe Gln
 65 70 75 80
 Ala Leu Lys Gly Gln Glu Phe Ala Pro Ser His Gln Gln Val Tyr Ala
 85 90 95
 Pro Leu Arg Ala Asp Gly Asp Lys Pro Arg Ala His Leu Thr Val Val
 100 105 110
 Arg Gln Thr Pro Thr Gln His Phe Lys Asn Gln Phe Pro Ala Leu His
 115 120 125
 Trp Glu His Glu Leu Gly Leu Ala Phe Thr Lys Asn Arg Met Asn Tyr
 130 135 140
 Thr Asn Lys Phe Leu Leu Ile Pro Glu Ser Gly Asp Tyr Phe Ile Tyr
 145 150 155 160
 Ser Gln Val Thr Phe Arg Gly Met Thr Ser Glu Cys Ser Glu Ile Arg
 165 170 175
 Gln Ala Gly Arg Pro Asn Lys Pro Asp Ser Ile Thr Val Val Ile Thr
 180 185 190
 Lys Val Thr Asp Ser Tyr Pro Glu Pro Thr Gln Leu Leu Met Gly Thr
 195 200 205
 Lys Ser Val Cys Glu Val Gly Ser Asn Trp Phe Gln Pro Ile Tyr Leu
 210 215 220
 Gly Ala Met Phe Ser Leu Gln Glu Gly Asp Lys Leu Met Val Asn Val
 225 230 235 240

Ser Asp Ile Ser Leu Val Asp Tyr Thr Lys Glu Asp Lys Thr Phe Phe
245 250 255
Gly Ala Phe Leu Leu
260 261

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<210> 2262
<211> 383
<212> PRT
<213> Homo sapiens
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<400> 2262																
Ala	Cys	Gly	Ile	Arg	His	Glu	Gly	Ala	Leu	Pro	Gly	Leu	Thr	Ala	Thr	
1				5					10					15		
Pro	Glu	Ala	Met	Leu	Arg	Phe	Leu	Pro	Asp	Leu	Ala	Phe	Ser	Phe	Leu	
			20					25					30			
Leu	Ile	Leu	Ala	Leu	Gly	Gln	Ala	Val	Gln	Phe	Gln	Glu	Tyr	Val	Phe	
		35					40					45				
Leu	Gln	Phe	Leu	Gly	Leu	Asp	Lys	Ala	Pro	Ser	Pro	Gln	Lys	Phe	Gln	
	50					55					60					
Pro	Val	Pro	Tyr	Ile	Leu	Lys	Lys	Ile	Phe	Gln	Asp	Arg	Glu	Ala	Ala	
65					70					75					80	
Ala	Thr	Thr	Gly	Val	Ser	Arg	Asp	Leu	Cys	Tyr	Val	Lys	Glu	Leu	Gly	
				85					90					95		
Val	Arg	Gly	Asn	Val	Leu	Arg	Phe	Leu	Pro	Asp	Gln	Gly	Phe	Phe	Leu	
		100						105					110			
Tyr	Pro	Lys	Lys	Ile	Ser	Gln	Ala	Ser	Ser	Cys	Leu	Gln	Lys	Leu	Leu	
	115					120					125					
Tyr	Phe	Asn	Leu	Ser	Ala	Ile	Lys	Glu	Arg	Glu	Gln	Leu	Thr	Leu	Ala	
	130					135					140					
Gln	Leu	Gly	Leu	Asp	Leu	Gly	Pro	Asn	Ser	Tyr	Tyr	Asn	Leu	Gly	Pro	
145					150					155					160	
Glu	Leu	Glu	Leu	Ala	Leu	Phe	Leu	Val	Gln	Glu	Pro	His	Val	Trp	Gly	
				165					170					175		
Gln	Thr	Thr	Pro	Lys	Pro	Gly	Lys	Met	Phe	Val	Leu	Arg	Ser	Val	Pro	
		180						185					190			
Trp	Pro	Gln	Gly	Ala	Val	His	Phe	Asn	Leu	Leu	Asp	Val	Ala	Lys	Asp	
	195						200					205				
Trp	Asn	Asp	Asn	Pro	Arg	Lys	Asn	Phe	Gly	Leu	Phe	Leu	Glu	Ile	Leu	
	210					215					220					
Val	Lys	Glu	Asp	Arg	Asp	Ser	Gly	Val	Asn	Phe	Gln	Pro	Glu	Asp	Thr	
225					230					235					240	
Cys	Ala	Arg	Leu	Arg	Cys	Ser	Leu	His	Ala	Ser	Leu	Leu	Val	Val	Thr	
				245					250					255		
Leu	Asn	Pro	Asp	Gln	Cys	His	Pro	Ser	Arg	Lys	Arg	Arg	Ala	Ala	Ile	
	260							265					270			
Pro	Val	Pro	Lys	Leu	Ser	Cys	Lys	Asn	Leu	Cys	His	Arg	His	Gln	Leu	
	275						280					285				
Phe	Ile	Asn	Phe	Arg	Asp	Leu	Gly	Trp	His	Lys	Trp	Ile	Ile	Ala	Pro	
	290					295					300					
Lys	Gly	Phe	Met	Ala	Asn	Tyr	Cys	His	Gly	Glu	Cys	Pro	Phe	Ser	Leu	
305					310					315					320	
Thr	Ile	Ser	Leu													

<210> 2263
 <211> 277
 <212> PRT
 <213> Homo sapiens

<400> 2263
 Ala Ser Arg Leu Pro Arg Gly Pro Gly Cys Gly Ala Asp Met Arg Pro
 1 5 10 15
 Leu Leu Gly Leu Leu Leu Val Phe Ala Gly Cys Thr Phe Ala Leu Tyr
 20 25 30
 Leu Leu Ser Thr Arg Leu Pro Arg Gly Arg Arg Leu Gly Ser Thr Glu
 35 40 45
 Glu Ala Gly Gly Arg Ser Leu Trp Phe Pro Ser Asp Leu Ala Glu Leu
 50 55 60
 Arg Glu Leu Ser Glu Val Leu Arg Glu Tyr Arg Lys Glu His Gln Ala
 65 70 75 80
 Tyr Val Phe Leu Leu Phe Cys Gly Ala Tyr Leu Tyr Lys Gln Gly Phe
 85 90 95
 Ala Ile Pro Gly Ser Ser Phe Leu Asn Val Leu Ala Gly Ala Leu Phe
 100 105 110
 Gly Pro Trp Leu Gly Leu Leu Leu Cys Cys Val Leu Thr Ser Val Gly
 115 120 125
 Ala Thr Cys Cys Tyr Leu Leu Ser Ser Ile Phe Gly Lys Gln Leu Val
 130 135 140
 Val Ser Tyr Phe Pro Asp Lys Val Ala Leu Leu Gln Arg Lys Val Glu
 145 150 155 160
 Glu Asn Arg Asn Ser Leu Phe Phe Phe Leu Leu Phe Leu Arg Leu Phe
 165 170 175
 Pro Met Thr Pro Asn Trp Phe Leu Asn Leu Ser Ala Pro Ile Leu Asn
 180 185 190
 Ile Pro Ile Val Gln Phe Phe Phe Ser Val Leu Ile Gly Leu Ile Pro
 195 200 205
 Tyr Asn Phe Ile Cys Val Gln Thr Gly Ser Ile Leu Ser Thr Leu Thr
 210 215 220
 Ser Leu Asp Ala Leu Phe Ser Trp Asp Thr Val Phe Lys Leu Leu Ala
 225 230 235 240
 Ile Ala Met Val Ala Leu Ile Pro Gly Thr Leu Ile Lys Lys Phe Ser
 245 250 255
 Gln Lys His Leu Gln Leu Asn Glu Thr Ser Thr Ala Asn His Ile His
 260 265 270
 Ser Arg Lys Asp Thr
 275 277

<210> 2264
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 2264
 Lys Ser Gly Trp Val Trp Trp Leu Thr Pro Leu Ile Pro Ala Leu Trp
 1 5 10 15
 Glu Ala Gln Thr Glu Gly Ser Leu Arg Pro Glu Val Lys Asn Arg Leu
 20 25 30
 Ser Asn Ile Thr Arg Pro Phe Phe Ser Lys Lys Lys Lys Ile Leu Val
 35 40 45 48

<210> 2265
 <211> 212
 <212> PRT
 <213> Homo sapiens

<400> 2265
 His Ala Ser Gly Pro Gly Gly Leu Leu Arg Arg Arg Arg Gly Ser Gly
 1 5 10 15
 Ala Asn Met Pro Val Ala Arg Ser Trp Val Cys Arg Lys Thr Tyr Val
 20 25 30
 Thr Pro Arg Arg Pro Phe Glu Lys Ser Arg Leu Asp Gln Glu Leu Lys
 35 40 45
 Leu Ile Gly Glu Tyr Gly Leu Arg Asn Lys Arg Glu Val Trp Arg Val
 50 55 60
 Lys Phe Thr Leu Ala Lys Ile Arg Lys Ala Ala Arg Glu Leu Leu Thr
 65 70 75 80
 Leu Asp Glu Lys Asp Pro Arg Arg Leu Phe Glu Gly Asn Ala Leu Leu
 85 90 95
 Arg Arg Leu Val Arg Ile Gly Val Leu Asp Glu Gly Lys Met Lys Leu
 100 105 110
 Asp Tyr Ile Leu Gly Leu Lys Ile Glu Asp Phe Leu Glu Arg Arg Leu
 115 120 125
 Gln Thr Gln Val Phe Lys Leu Gly Leu Ala Lys Ser Ile His His Ala
 130 135 140
 His Val Leu Ile Gln Gln Cys His Ile Arg Val Arg Glu Gln Val Val
 145 150 155 160
 Asn Ile Leu Phe Phe Thr Val Arg Leu Asp Ser Gln Lys His Ile Asp
 165 170 175
 Phe Ser Leu Cys Phe Pro Ile Gly Val Ala Asn Pro Ser His Val Lys
 180 185 190
 Arg Lys Asn Ala Ser Lys Gly Gln Gly Gly Ala Gly Ala Arg Asp Asp
 195 200 205
 Glu Glu Glu Glu
 210 212

<210> 2266
 <211> 321
 <212> PRT
 <213> Homo sapiens

<400> 2266
 Val Ala His Thr Gln Trp His Thr Cys Gln Arg Leu Ser Gln Leu Thr
 1 5 10 15
 His Arg Ser Ile Leu Lys Tyr Leu Leu Ile Asp Thr His Ala Cys Gln
 20 25 30
 Val Leu Ile Leu Lys His Thr His Ala Ser Leu Ser Leu Pro Ser Cys
 35 40 45
 Gln Glu Cys Phe Pro Ser Ser Ile Pro Ser Ala Ser His Met Val Ser
 50 55 60
 His Pro His Pro Pro Pro Ser Pro Arg Trp Gly Gln Thr Pro Glu Gly
 65 70 75 80
 Leu Pro Ala Ala Ser Pro Cys Gly Pro Gly Pro Arg Ser Cys Phe Ser
 85 90 95
 Ser Ile Leu Pro Thr Gly Asp Ser Trp Gly Met Leu Ala Cys Leu Cys
 100 105 110
 Thr Val Leu Trp His Leu Pro Ala Val Pro Ala Leu Asn Arg Thr Gly
 115 120 125
 Asp Pro Gly Pro Gly Pro Ser Ile Gln Lys Thr Tyr Asp Leu Thr Arg
 130 135 140

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Tyr Leu Glu His Gln Leu Arg Ser Leu Ala Gly Thr Tyr Leu Asn Tyr
145          150          155          160
Leu Gly Pro Pro Phe Asn Glu Pro Asp Phe Asn Pro Pro Arg Leu Gly
          165          170          175
Ala Glu Thr Leu Pro Arg Ala Thr Val Asp Leu Glu Val Trp Arg Ser
          180          185          190
Leu Asn Asp Lys Leu Arg Leu Thr Gln Asn Tyr Glu Ala Tyr Ser His
          195          200          205
Leu Leu Cys Tyr Leu Arg Gly Leu Asn Arg Gln Ala Ala Thr Ala Glu
          210          215          220
Leu Arg Arg Ser Leu Ala His Phe Cys Thr Ser Leu Gln Gly Leu Leu
225          230          235          240
Gly Ser Ile Ala Gly Val Met Ala Ala Leu Gly Tyr Pro Leu Pro Gln
          245          250          255
Pro Leu Pro Gly Thr Glu Pro Thr Trp Thr Pro Gly Pro Ala His Ser
          260          265          270
Asp Phe Leu Gln Lys Met Asp Asp Phe Trp Leu Leu Lys Glu Leu Gln
          275          280          285
Thr Trp Leu Trp Arg Ser Ala Lys Asp Phe Asn Arg Leu Lys Lys Lys
290          295          300
Met Gln Pro Pro Ala Ala Val Thr Leu His Leu Gly Ala His Gly
305          310          315          320
Phe
321

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<210> 2267
<211> 388
<212> PRT
<213> Homo sapiens

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<400> 2267
Arg Pro Arg Arg Gly Gln Gly Leu Val Gln Glu Val Gln Thr Glu Asn
1          5          10          15
Val Thr Val Ala Glu Gly Gly Val Ala Glu Ile Thr Cys Arg Leu His
          20          25          30
Gln Tyr Asp Gly Ser Ile Val Val Ile Gln Asn Pro Ala Arg Gln Thr
          35          40          45
Leu Phe Phe Asn Gly Thr Arg Ala Leu Lys Asp Glu Arg Phe Gln Leu
          50          55          60
Glu Glu Phe Ser Pro Arg Arg Val Arg Ile Arg Leu Ser Asp Ala Arg
          65          70          75          80
Leu Glu Asp Glu Gly Gly Tyr Phe Cys Gln Leu Tyr Thr Glu Asp Thr
          85          90          95
His His Gln Ile Ala Thr Leu Thr Val Leu Val Ala Pro Glu Asn Pro
          100          105          110
Val Val Glu Val Arg Glu Gln Ala Val Glu Gly Gly Glu Val Glu Leu
          115          120          125
Ser Cys Leu Val Pro Arg Ser Arg Pro Ala Ala Thr Leu Arg Trp Tyr
          130          135          140
Arg Asp Arg Lys Glu Leu Lys Gly Val Ser Ser Ser Gln Glu Asn Gly
145          150          155          160
Lys Val Trp Ser Val Ala Ser Thr Val Arg Phe Arg Val Asp Arg Lys
          165          170          175
Asp Asp Gly Gly Ile Ile Ile Cys Glu Ala Gln Asn Gln Ala Leu Pro
          180          185          190
Ser Gly His Ser Lys Gln Thr Gln Tyr Val Leu Asp Val Gln Tyr Ser
          195          200          205
Pro Thr Ala Arg Ile His Ala Ser Gln Ala Val Val Arg Glu Gly Asp
          210          215          220
Thr Leu Val Leu Thr Cys Ala Val Thr Gly Asn Pro Arg Pro Asn Gln
225          230          235          240

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Ile Arg Trp Asn Arg Gly Asn Glu Ser Leu Pro Glu Arg Ala Glu Ala
      245      250      255
Val Gly Glu Thr Leu Thr Leu Pro Gly Leu Val Ser Ala Asp Asn Gly
      260      265      270
Thr Tyr Thr Cys Glu Ala Ser Asn Lys His Gly His Ala Arg Ala Leu
      275      280      285
Tyr Val Leu Val Val Tyr Gly Glu Ser Arg Leu Arg Pro Thr Glu Gly
      290      295      300
Gly Gly Gly Ala Pro Asp Pro Gly Ala Val Val Glu Ala Gln Thr Ser
      305      310      315      320
Val Pro Tyr Ala Ile Val Gly Gly Ile Leu Ala Leu Leu Val Phe Leu
      325      330      335
Ile Ile Cys Val Leu Val Gly Met Val Trp Cys Ser Val Arg Gln Lys
      340      345      350
Gly Ser Tyr Leu Thr His Glu Ala Ser Gly Leu Asp Glu Gln Gly Glu
      355      360      365
Ala Arg Glu Ala Phe Leu Asn Gly Ser Asp Gly His Lys Arg Lys Glu
      370      375      380
Glu Phe Phe Ile
      385      388

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<210> 2268
<211> 883
<212> PRT
<213> Homo sapiens

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      <400> 2268
Arg Arg Arg Leu Pro Pro Ala Ser Pro Pro Ser Ser Ser Val Ser Ser
 1      5      10      15
Ser Leu Ser Pro Ser Ala Val Val Met Ala Cys Arg Trp Ser Thr Lys
      20      25      30
Glu Ser Pro Arg Trp Arg Ser Ala Leu Leu Leu Leu Phe Leu Ala Gly
      35      40      45
Val Tyr Gly Asn Gly Ala Leu Ala Glu His Ser Glu Asn Val His Ile
      50      55      60
Ser Gly Val Ser Thr Ala Cys Gly Glu Thr Pro Glu Gln Ile Arg Ala
      65      70      75      80
Pro Ser Gly Ile Ile Thr Ser Pro Gly Trp Pro Ser Glu Tyr Pro Ala
      85      90      95
Lys Ile Asn Cys Ser Trp Phe Ile Arg Ala Asn Pro Gly Glu Ile Ile
      100      105      110
Thr Ile Ser Phe Gln Asp Phe Asp Ile Gln Gly Ser Arg Arg Cys Asn
      115      120      125
Leu Asp Trp Leu Thr Ile Glu Thr Tyr Lys Asn Ile Glu Ser Tyr Arg
      130      135      140
Ala Cys Gly Ser Thr Ile Pro Pro Pro Tyr Ile Ser Ser Gln Asp His
      145      150      155      160
Ile Trp Ile Arg Phe His Ser Asp Asp Asn Ile Ser Arg Lys Gly Phe
      165      170      175
Arg Leu Ala Tyr Phe Ser Gly Lys Ser Glu Glu Pro Asn Cys Ala Cys
      180      185      190
Asp Gln Phe Arg Cys Gly Asn Gly Lys Cys Ile Pro Glu Ala Trp Lys
      195      200      205
Cys Asn Asn Met Asp Glu Cys Gly Asp Arg Ser Asp Glu Glu Ile Cys
      210      215      220
Ala Lys Glu Ala Asn Pro Pro Thr Ala Ala Ala Phe Gln Pro Cys Ala
      225      230      235      240
Tyr Asn Gln Phe Gln Cys Leu Ser Arg Phe Thr Lys Val Tyr Thr Cys
      245      250      255
Leu Pro Glu Ser Leu Lys Cys Asp Gly Asn Ile Asp Cys Leu Asp Leu
      260      265      270

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Gly Asp Glu Ile Asp Cys Asp Val Pro Thr Cys Gly Gln Trp Leu Lys
 275 280 285
 Tyr Phe Tyr Gly Thr Phe Asn Ser Pro Asn Tyr Pro Asp Phe Tyr Pro
 290 295 300
 Pro Gly Ser Asn Cys Thr Trp Leu Ile Asp Thr Gly Asp His Arg Lys
 305 310 315 320
 Val Ile Leu Arg Phe Thr Asp Phe Lys Leu Asp Gly Thr Gly Tyr Gly
 325 330 335
 Asp Tyr Val Lys Ile Tyr Asp Gly Leu Glu Glu Asn Pro His Lys Leu
 340 345 350
 Leu Arg Val Leu Thr Ala Phe Asp Ser His Ala Pro Leu Thr Val Val
 355 360 365
 Ser Ser Ser Gly Gln Ile Arg Val His Phe Cys Ala Asp Lys Val Asn
 370 375 380
 Ala Ala Arg Gly Phe Asn Ala Thr Tyr Gln Val Asp Gly Phe Cys Leu
 385 390 395 400
 Pro Trp Glu Ile Pro Cys Gly Gly Asn Trp Gly Cys Tyr Thr Glu Gln
 405 410 415
 Gln Arg Cys Asp Gly Tyr Trp His Cys Pro Asn Gly Arg Asp Glu Thr
 420 425 430
 Asn Cys Thr Met Cys Gln Lys Glu Glu Phe Pro Cys Ser Arg Asn Gly
 435 440 445
 Val Cys Tyr Pro Arg Ser Asp Arg Cys Asn Tyr Gln Asn His Cys Pro
 450 455 460
 Asn Gly Ser Asp Glu Lys Asn Cys Phe Phe Cys Gln Pro Gly Asn Phe
 465 470 475 480
 His Cys Lys Asn Asn Arg Cys Val Phe Glu Ser Trp Val Cys Asp Ser
 485 490 495
 Gln Asp Asp Cys Gly Asp Gly Ser Asp Glu Glu Asn Cys Pro Val Ile
 500 505 510
 Val Pro Thr Arg Val Ile Thr Ala Ala Val Ile Gly Ser Leu Ile Cys
 515 520 525
 Gly Leu Leu Leu Val Ile Ala Leu Gly Cys Thr Cys Lys Leu Tyr Ser
 530 535 540
 Leu Arg Met Phe Glu Arg Arg Ser Phe Glu Thr Gln Leu Ser Arg Val
 545 550 555 560
 Glu Ala Glu Leu Leu Arg Arg Glu Ala Pro Pro Ser Tyr Gly Gln Leu
 565 570 575
 Ile Ala Gln Gly Leu Ile Pro Pro Val Glu Asp Phe Pro Val Cys Ser
 580 585 590
 Pro Asn Gln Ala Ser Val Leu Glu Asn Leu Arg Leu Ala Val Arg Ser
 595 600 605
 Gln Leu Gly Phe Thr Ser Val Arg Leu Pro Met Ala Gly Arg Ser Ser
 610 615 620
 Asn Ile Trp Asn Arg Ile Phe Asn Phe Ala Arg Ser Arg His Ser Gly
 625 630 635 640
 Ser Leu Ala Leu Val Ser Ala Asp Gly Asp Glu Val Val Pro Ser Gln
 645 650 655
 Ser Thr Ser Arg Glu Pro Glu Arg Asn His Thr His Arg Ser Leu Phe
 660 665 670
 Ser Val Glu Ser Asp Asp Thr Asp Thr Glu Asn Glu Arg Arg Asp Met
 675 680 685
 Ala Gly Ala Ser Gly Gly Val Ala Ala Pro Leu Pro Gln Lys Val Pro
 690 695 700
 Pro Thr Thr Ala Val Glu Ala Thr Val Gly Ala Cys Ala Ser Ser Ser
 705 710 715 720
 Thr Gln Ser Thr Arg Gly Gly His Ala Asp Asn Gly Arg Asp Val Thr
 725 730 735
 Ser Val Glu Pro Pro Ser Val Ser Pro Ala Arg His Gln Leu Thr Ser
 740 745 750
 Ala Leu Ser Arg Met Thr Gln Gly Leu Arg Trp Val Arg Phe Thr Leu
 755 760 765
 Gly Arg Ser Ser Ser Leu Ser Gln Asn Gln Ser Pro Leu Arg Gln Leu
 770 775 780

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Asp Asn Gly Val Ser Gly Arg Glu Asp Asp Asp Asp Val Glu Met Leu
785          790          795          800
Ile Pro Ile Ser Asp Gly Ser Ser Asp Phe Asp Val Asn Asp Cys Ser
      805          810          815
Arg Pro Leu Leu Asp Leu Ala Ser Asp Gln Gly Gln Gly Leu Arg Gln
      820          825          830
Pro Tyr Asn Ala Thr Asn Pro Gly Val Arg Pro Ser Asn Arg Asp Gly
      835          840          845
Pro Cys Glu Arg Cys Gly Ile Val His Thr Ala Gln Ile Pro Asp Thr
      850          855          860
Cys Leu Glu Val Thr Leu Lys Asn Glu Thr Ser Asp Asp Glu Ala Leu
865          870          875          880
Leu Leu Cys
      883

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<210> 2269
<211> 54
<212> PRT
<213> Homo sapiens

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<400> 2269
Val Val Arg Val Thr Cys Cys Pro Pro Ala Arg Ser Thr Thr Glu Arg
 1          5          10          15
Thr Asn Ala Tyr Asp Glu Glu Asp Cys Val Glu Met Val Ala Ser Gly
      20          25          30
Gly Trp Asn Asp Val Ala Cys His Thr Thr Met Tyr Phe Met Cys Glu
      35          40          45
Phe Asp Lys Lys Asn Met
 50          54

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<210> 2270
<211> 175
<212> PRT
<213> Homo sapiens

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<400> 2270
Gly Gly Arg Ala Ser Trp Pro Glu Gln Ala Lys Glu Pro Arg Arg Glu
 1          5          10          15
Gly His Thr Asp Lys Gln Gln Thr Glu Asp Val Leu Ala Ala Gly Leu
      20          25          30
Arg Cys Leu Pro His Leu Pro Ala Ile Cys Ala Arg Arg Met Ser Pro
      35          40          45
Ala Phe Arg Ala Met Asp Val Glu Pro Arg Ala Lys Gly Val Leu Leu
      50          55          60
Glu Pro Phe Val His Gln Val Gly Gly His Ser Cys Val Leu Arg Phe
      65          70          75          80
Asn Glu Thr Thr Leu Cys Lys Pro Leu Val Pro Arg Glu His Gln Phe
      85          90          95
Tyr Glu Thr Leu Pro Ala Glu Met Arg Lys Phe Thr Pro Gln Tyr Lys
      100          105          110
Gly Lys Ser Gln Leu Leu Glu Gly Leu Pro His Trp Arg Gly Asp Val
      115          120          125
Arg Asp Arg Gly His Gly Arg Pro Trp Gln Pro Ser Leu Glu Pro Ser
      130          135          140
Leu Pro Pro Thr Leu Cys Phe Pro Ser Leu Ser Ser Phe Ser Ser Ser
      145          150          155          160
Trp Pro Ser Ala Gln His Leu Thr Pro Ser Val Phe Asn Pro Trp
      165          170          175

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<210> 2271
 <211> 66
 <212> PRT
 <213> Homo sapiens

<400> 2271
 Arg Ser Gly Arg Thr Val Val Thr Gly Ile Gly Tyr Ser Lys Ala Leu
 1 5 10 15
 Gln Ser Ser Asn Arg Asn Thr Lys Ser Leu Leu Gln Asn Glu Phe Met
 20 25 30
 Met Val Tyr Ser Phe Arg Ala Leu Ser Phe Lys Glu Ser Thr Trp Ala
 35 40 45
 Thr Phe Gln His Gly Gly Glu Ala Thr Lys Ser Arg Ser Leu Ser Ser
 50 55 60
 Thr Gln
 65 66

<210> 2272
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 2272
 Glu Asn Ile Thr Glu Lys Trp Lys Glu Ile Trp Met Cys Arg Gly Asn
 1 5 10 15
 Lys Lys Ser Cys Cys Trp Thr Phe Ile Lys Asp Arg His Leu Thr Val
 20 25 30
 Ser Cys Cys Lys Ser Lys Ser Gly Glu Thr Leu Leu Ile Cys Ile Phe
 35 40 45
 Cys Ser Asn Leu Val Gly Phe Phe Phe Phe Gly Ile Arg Gly Phe Ser
 50 55 60
 Asn Trp Glu Leu Val Lys Pro Asn
 65 70 72

<210> 2273
 <211> 1007
 <212> PRT
 <213> Homo sapiens

<400> 2273
 Gly Ser Ala Pro Arg Ala Ala Thr Ala Met Ala Arg Ala Arg Pro Pro
 1 5 10 15
 Pro Pro Pro Ser Pro Pro Pro Gly Leu Leu Pro Leu Leu Pro Pro Leu
 20 25 30
 Leu Leu Leu Pro Leu Leu Leu Leu Pro Ala Gly Cys Arg Ala Leu Glu
 35 40 45
 Glu Thr Leu Met Asp Thr Lys Trp Val Thr Ser Glu Leu Ala Trp Thr
 50 55 60
 Ser His Pro Glu Ser Gly Trp Glu Glu Val Ser Gly Tyr Asp Glu Ala
 65 70 75 80
 Met Asn Pro Ile Arg Thr Tyr Gln Val Cys Asn Val Arg Glu Ser Ser
 85 90 95
 Gln Asn Asn Trp Leu Arg Thr Gly Phe Ile Trp Arg Arg Asp Val Gln
 100 105 110


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Arg Val Tyr Val Glu Leu Lys Phe Thr Val Arg Asp Cys Asn Ser Ile
115 120 125
Pro Asn Ile Pro Gly Ser Cys Lys Glu Thr Phe Asn Leu Phe Tyr Tyr
130 135 140
Glu Ala Asp Ser Asp Val Ala Ser Ala Ser Ser Pro Phe Trp Met Glu
145 150 155 160
Asn Pro Tyr Val Lys Val Asp Thr Ile Ala Pro Asp Glu Ser Phe Ser
165 170 175
Arg Leu Asp Ala Gly Arg Val Asn Thr Lys Val Arg Ser Phe Gly Pro
180 185 190
Leu Ser Lys Ala Gly Phe Tyr Leu Ala Phe Gln Asp Gln Gly Ala Cys
195 200 205
Met Ser Leu Ile Ser Val Arg Ala Phe Tyr Lys Lys Cys Ala Ser Thr
210 215 220
Thr Ala Gly Phe Ala Leu Phe Pro Glu Thr Leu Thr Gly Ala Glu Pro
225 230 235 240
Thr Ser Leu Val Ile Ala Pro Gly Thr Cys Ile Pro Asn Ala Val Glu
245 250 255
Val Ser Val Pro Leu Lys Leu Tyr Cys Asn Gly Asp Gly Glu Trp Met
260 265 270
Val Pro Val Gly Ala Cys Thr Cys Ala Thr Gly His Glu Pro Ala Ala
275 280 285
Lys Glu Ser Gln Cys Arg Pro Cys Pro Pro Gly Ser Tyr Lys Ala Lys
290 295 300
Gln Gly Glu Gly Pro Cys Leu Pro Cys Pro Pro Asn Ser Arg Thr Thr
305 310 315 320
Ser Pro Ala Ala Ser Ile Cys Thr Cys His Asn Asn Phe Tyr Arg Ala
325 330 335
Asp Ser Asp Ser Ala Asp Ser Ala Cys Thr Thr Val Pro Ser Pro Pro
340 345 350
Arg Gly Val Ile Ser Asn Val Asn Glu Thr Ser Leu Ile Leu Glu Trp
355 360 365
Ser Glu Pro Arg Asp Leu Gly Val Arg Asp Asp Leu Leu Tyr Asn Val
370 375 380
Ile Cys Lys Lys Cys His Gly Ala Gly Gly Ala Ser Ala Cys Ser Arg
385 390 395 400
Cys Asp Asp Asn Val Glu Phe Val Pro Arg Gln Leu Gly Leu Ser Glu
405 410 415
Pro Arg Val His Thr Ser His Leu Leu Ala His Thr Arg Tyr Thr Phe
420 425 430
Glu Val Gln Ala Val Asn Gly Val Ser Gly Lys Ser Pro Leu Pro Pro
435 440 445
Arg Tyr Ala Ala Val Asn Ile Thr Thr Asn Gln Ala Ala Pro Ser Glu
450 455 460
Val Pro Thr Leu Arg Leu His Ser Ser Ser Gly Ser Ser Leu Thr Leu
465 470 475 480
Ser Trp Ala Pro Pro Glu Arg Pro Asn Gly Val Ile Leu Asp Tyr Glu
485 490 495
Met Lys Tyr Phe Glu Lys Ser Glu Gly Ile Ala Ser Thr Val Thr Ser
500 505 510
Gln Met Asn Ser Val Gln Leu Asp Gly Leu Arg Pro Asp Ala Arg Tyr
515 520 525
Val Val Gln Val Arg Ala Arg Thr Val Ala Gly Tyr Gly Gln Tyr Ser
530 535 540
Arg Pro Ala Glu Phe Glu Thr Thr Ser Glu Arg Gly Ser Gly Ala Gln
545 550 555 560
Gln Leu Gln Glu Gln Leu Pro Leu Ile Val Gly Ser Ala Thr Ala Gly
565 570 575
Leu Val Phe Val Val Ala Val Val Val Ile Ala Ile Val Cys Leu Arg
580 585 590
Lys Gln Arg His Gly Ser Asp Ser Glu Tyr Thr Glu Lys Leu Gln Gln
595 600 605
Tyr Ile Ala Pro Gly Met Lys Val Tyr Ile Asp Pro Phe Thr Tyr Glu
610 615 620

```

Asp Pro Asn Glu Ala Val Arg Glu Phe Ala Lys Glu Ile Asp Val Ser
 625 630 635 640
 Cys Val Lys Ile Glu Glu Val Ile Gly Ala Gly Glu Phe Gly Glu Val
 645 650 655
 Cys Arg Gly Arg Leu Lys Gln Pro Gly Arg Arg Glu Val Phe Val Ala
 660 665 670
 Ile Lys Thr Leu Lys Val Gly Tyr Thr Glu Arg Gln Arg Arg Asp Phe
 675 680 685
 Leu Ser Glu Ala Ser Ile Met Gly Gln Phe Asp His Pro Asn Ile Ile
 690 695 700
 Arg Leu Glu Gly Val Val Thr Lys Ser Arg Pro Val Met Ile Leu Thr
 705 710 715 720
 Glu Phe Met Glu Asn Cys Ala Leu Asp Ser Phe Leu Arg Leu Asn Asp
 725 730 735
 Gly Gln Phe Thr Val Ile Gln Leu Val Gly Met Leu Arg Gly Ile Ala
 740 745 750
 Ala Gly Met Lys Tyr Leu Ser Glu Met Asn Tyr Val His Arg Asp Leu
 755 760 765
 Ala Ala Arg Asn Ile Leu Val Asn Ser Asn Leu Val Cys Lys Val Ser
 770 775 780
 Asp Phe Gly Leu Ser Arg Phe Leu Glu Asp Asp Pro Ser Asp Pro Thr
 785 790 795 800
 Tyr Thr Ser Ser Leu Gly Gly Lys Ile Pro Ile Arg Trp Thr Ala Pro
 805 810 815
 Glu Ala Ile Ala Tyr Arg Lys Phe Thr Ser Ala Ser Asp Val Trp Ser
 820 825 830
 Tyr Gly Ile Val Met Trp Glu Val Met Ser Tyr Gly Glu Arg Pro Tyr
 835 840 845
 Trp Asp Met Ser Asn Gln Asp Val Ile Asn Ala Val Glu Gln Asp Tyr
 850 855 860
 Arg Leu Pro Pro Pro Met Asp Cys Pro Thr Ala Leu His Gln Leu Met
 865 870 875 880
 Leu Asp Cys Trp Val Arg Asp Arg Asn Leu Arg Pro Lys Phe Ser Gln
 885 890 895
 Ile Val Asn Thr Leu Asp Lys Leu Ile Arg Asn Ala Ala Ser Leu Lys
 900 905 910
 Val Ile Ala Ser Ala Gln Ser Gly Met Ser Gln Pro Leu Leu Asp Arg
 915 920 925
 Thr Val Pro Asp Tyr Thr Thr Phe Thr Thr Val Gly Asp Trp Leu Asp
 930 935 940
 Ala Ile Lys Met Gly Arg Tyr Lys Glu Ser Phe Val Ser Ala Gly Phe
 945 950 955 960
 Ala Ser Phe Asp Leu Val Ala Gln Met Thr Ala Glu Asp Leu Leu Arg
 965 970 975
 Ile Gly Val Thr Leu Ala Gly His Gln Lys Lys Ile Leu Ser Ser Ile
 980 985 990
 Gln Asp Met Arg Leu Gln Met Asn Gln Thr Leu Pro Val Gln Val
 995 1000 1005 1007

<210> 2274
 <211> 167
 <212> PRT
 <213> Homo sapiens

<400> 2274
 Phe Arg Pro Arg Thr Lys Lys Ala Thr Ala Met Tyr Leu Glu His Tyr
 1 5 10 15
 Leu Asp Ser Ile Glu Asn Leu Pro Cys Glu Leu Gln Arg Asn Phe Gln
 20 25 30
 Leu Met Arg Glu Leu Asp Gln Arg Thr Glu Asp Lys Lys Ala Glu Ile
 35 40 45

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Asp Ile Leu Ala Ala Glu Tyr Ile Ser Thr Val Lys Thr Leu Ser Pro
 50          55          60
Asp Gln Arg Val Glu Arg Leu Gln Lys Ile Gln Asn Ala Tyr Ser Lys
 65          70          75          80
Cys Lys Glu Tyr Ser Asp Asp Lys Val Gln Leu Ala Met Gln Thr Tyr
          85          90          95
Glu Met Val Asp Lys His Ile Arg Arg Leu Asp Ala Asp Leu Ala Arg
 100          105          110
Phe Glu Ala Asp Leu Lys Asp Lys Met Glu Gly Ser Asp Phe Glu Ser
 115          120          125
Ser Gly Gly Arg Gly Leu Lys Lys Gly Arg Gly Gln Lys Glu Lys Arg
 130          135          140
Gly Ser Arg Gly Arg Gly Arg Arg Thr Ser Glu Glu Asp Thr Pro Lys
 145          150          155          160
Lys Lys Lys His Lys Gly Gly
          165          167

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<210> 2275
 <211> 47
 <212> PRT
 <213> Homo sapiens

```

<400> 2275
Leu Pro Cys Ser Phe Cys Ala Gln Cys Met Ser Ser Phe Glu Arg Val
 1          5          10          15
Trp Leu Gln Gln Ser His Phe His Asn Pro Arg Trp Asn Ser Arg Ser
          20          25          30
Pro Ile Arg Cys Tyr Cys Gln His Trp Pro His Cys Val His Cys
          35          40          45          47

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<210> 2276
 <211> 114
 <212> PRT
 <213> Homo sapiens

```

<400> 2276
Gly Pro Cys Lys Val Cys Cys Ile Thr Leu Ala Ile Met Leu Gln Cys
 1          5          10          15
His Ser Phe Tyr Arg Lys Asp Val Gln Val Glu His Pro Lys Ser Leu
          20          25          30
Asn Pro Lys Tyr Ser Gln Ile Glu Asn Phe Leu Ser Ala Asp Met Ala
          35          40          45
Leu Lys Arg Lys Cys Leu Leu Ser Ile Ser Asp Leu Asp Phe Trp Ile
          50          55          60
Trp Asp Ala Gln Pro Val Gly Ile Met Gln Thr Leu Gln Asn Leu Lys
          65          70          75          80
Lys Ile Pro Asn Pro Gly Cys Phe Trp Ser Gln Ala Phe Gln Ile Arg
          85          90          95
Asp Thr Gln Pro Ile Leu Pro Leu Gly Gly Arg Tyr Tyr Ile Thr Ile
          100          105          110
Arg Gln
 114

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<210> 2277
 <211> 117
 <212> PRT

<213> Homo sapiens

<400> 2277

```

Arg Ile Gln Arg Pro Leu Asn Ser Arg Ser Pro Asn His Ser Leu Phe
 1           5           10           15
Val Lys Ala Glu Leu Thr Ala Lys Gln Ala Thr Met Lys Leu Ser Val
          20           25           30
Cys Leu Leu Leu Val Thr Leu Ala Leu Cys Cys Tyr Gln Ala Asn Ala
          35           40           45
Glu Phe Cys Pro Ala Leu Val Ser Glu Leu Leu Asp Phe Phe Ile
          50           55           60
Ser Glu Pro Leu Phe Lys Leu Ser Leu Ala Lys Phe Asp Ala Pro Pro
          65           70           75           80
Glu Ala Val Ala Ala Lys Leu Gly Val Lys Arg Cys Thr Asp Gln Met
          85           90           95
Ser Leu Gln Lys Arg Ser Leu Ile Ala Glu Val Leu Val Lys Ile Leu
          100          105          110
Lys Lys Cys Ser Val
          115          117

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<210> 2278

<211> 153

<212> PRT

<213> Homo sapiens

<400> 2278

```

Leu Ala Pro Leu Arg Cys Gln Pro Gly Thr Arg Thr Gln Pro Arg Ser
 1           5           10           15
His Pro Ala Ala Asn Asp Pro Ser Ala Ala Met Ser Ala Ala Gly Ala
          20           25           30
Arg Gly Leu Arg Ala Thr Tyr His Arg Leu Leu Asp Lys Val Glu Leu
          35           40           45
Met Leu Pro Glu Lys Leu Arg Pro Leu Tyr Asn His Pro Ala Gly Pro
          50           55           60
Arg Thr Val Phe Phe Trp Ala Pro Ile Met Lys Trp Gly Leu Val Cys
          65           70           75           80
Ala Gly Leu Ala Asp Met Ala Arg Pro Ala Glu Lys Leu Ser Thr Ala
          85           90           95
Gln Ser Ala Val Leu Met Ala Thr Gly Phe Ile Trp Ser Arg Tyr Ser
          100          105          110
Leu Val Ile Ile Pro Lys Asn Trp Ser Leu Phe Ala Val Asn Phe Phe
          115          120          125
Val Gly Ala Ala Gly Ala Ser Gln Leu Phe Arg Ile Trp Arg Tyr Asn
          130          135          140
Gln Glu Leu Lys Ala Lys Ala His Lys
          145          150          153

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<210> 2279

<211> 338

<212> PRT

<213> Homo sapiens

<400> 2279

```

Glu Phe Ala Arg Arg Arg Val Phe Ile Ala Ala Arg Glu Met Ser Leu
 1           5           10           15
Leu Arg Ser Leu Arg Val Phe Leu Val Ala Arg Thr Gly Ser Tyr Pro
          20           25           30

```

Ala Gly Ser Leu Leu Arg Gln Ser Pro Gln Pro Arg His Thr Phe Tyr
 35 40 45
 Ala Gly Pro Arg Leu Ser Ala Ser Ala Ser Lys Glu Leu Leu Met
 50 55 60
 Lys Leu Arg Arg Lys Thr Gly Tyr Ser Phe Val Asn Cys Lys Lys Ala
 65 70 75 80
 Leu Glu Thr Cys Gly Asp Leu Lys Gln Ala Glu Ile Trp Leu His
 85 90 95
 Lys Glu Ala Gln Lys Glu Gly Trp Ser Lys Ala Ala Lys Leu Gln Gly
 100 105 110
 Arg Lys Thr Lys Glu Gly Leu Ile Gly Leu Leu Gln Glu Gly Asn Thr
 115 120 125
 Thr Val Leu Val Glu Val Asn Cys Glu Thr Asp Phe Val Ser Arg Asn
 130 135 140
 Leu Lys Phe Gln Leu Leu Val Gln Gln Val Ala Leu Gly Thr Met Met
 145 150 155 160
 His Cys Gln Thr Leu Lys Asp Gln Pro Ser Ala Tyr Ser Lys Gly Phe
 165 170 175
 Leu Asn Ser Ser Glu Leu Ser Gly Leu Pro Ala Gly Pro Asp Arg Glu
 180 185 190
 Gly Ser Leu Lys Asp Gln Leu Ala Leu Ala Ile Gly Lys Leu Gly Glu
 195 200 205
 Asn Met Ile Leu Lys Arg Ala Ala Trp Val Lys Val Pro Ser Gly Phe
 210 215 220
 Tyr Val Gly Ser Tyr Val His Gly Ala Met Gln Ser Pro Ser Leu His
 225 230 235 240
 Lys Leu Val Leu Gly Lys Tyr Gly Ala Leu Val Ile Cys Glu Thr Ser
 245 250 255
 Glu Gln Lys Thr Asn Leu Glu Asp Val Gly Arg Arg Leu Gly Gln His
 260 265 270
 Val Val Gly Met Ala Pro Leu Ser Val Gly Ser Leu Asp Asp Glu Pro
 275 280 285
 Gly Gly Glu Ala Glu Thr Lys Met Leu Ser Gln Pro Tyr Leu Leu Asp
 290 295 300
 Pro Ser Ile Thr Leu Gly Gln Tyr Val Gln Pro Gln Gly Val Ser Val
 305 310 315 320
 Val Asp Phe Val Arg Phe Glu Cys Gly Glu Gly Glu Glu Ala Ala Glu
 325 330 335
 Thr Glu
 338

<210> 2280
 <211> 558
 <212> PRT
 <213> Homo sapiens

<400> 2280
 Asn Ser Arg Val Trp Gly Pro Trp Thr Glu Pro Ser Ala Gly Ser Leu
 1 5 10 15
 Arg Pro Met Ala Arg Lys Gln Asn Arg Asn Ser Lys Glu Leu Gly Leu
 20 25 30
 Val Pro Leu Thr Asp Asp Thr Ser His Ala Gly Pro Pro Gly Pro Gly
 35 40 45
 Arg Ala Leu Leu Glu Cys Asp His Leu Arg Ser Gly Val Pro Gly Gly
 50 55 60
 Arg Arg Arg Lys Asp Trp Ser Cys Ser Leu Leu Val Ala Ser Leu Ala
 65 70 75 80
 Gly Ala Phe Gly Ser Ser Phe Leu Tyr Gly Tyr Asn Leu Ser Val Val
 85 90 95
 Asn Ala Pro Thr Pro Tyr Ile Lys Ala Phe Tyr Asn Glu Ser Trp Glu
 100 105 110

```

Arg Arg His Gly Arg Pro Ile Asp Pro Asp Thr Leu Thr Leu Leu Trp
      115      120      125
Ser Val Thr Val Ser Ile Phe Ala Ile Gly Gly Leu Val Gly Thr Leu
      130      135      140
Ile Val Lys Met Ile Gly Lys Val Leu Gly Arg Lys His Thr Leu Leu
145      150      155      160
Ala Asn Asn Gly Phe Ala Ile Ser Ala Ala Leu Leu Met Ala Cys Ser
      165      170      175
Leu Gln Ala Gly Ala Phe Glu Met Leu Ile Val Gly Arg Phe Ile Met
      180      185      190
Gly Ile Asp Gly Gly Val Ala Leu Ser Val Leu Pro Met Tyr Leu Ser
      195      200      205
Glu Ile Ser Pro Lys Glu Ile Arg Gly Ser Leu Gly Gln Val Thr Ala
      210      215      220
Ile Phe Ile Cys Ile Gly Val Phe Thr Gly Gln Leu Leu Gly Leu Pro
225      230      235      240
Glu Leu Leu Gly Lys Glu Ser Thr Trp Pro Tyr Leu Phe Gly Val Ile
      245      250      255
Val Val Pro Ala Val Val Gln Leu Leu Ser Leu Pro Phe Leu Pro Asp
      260      265      270
Ser Pro Arg Tyr Leu Leu Leu Glu Lys His Asn Glu Ala Arg Ala Val
      275      280      285
Lys Ala Phe Gln Thr Phe Leu Gly Lys Ala Asp Val Ser Gln Glu Val
      290      295      300
Glu Glu Val Leu Ala Glu Ser Arg Val Gln Arg Ser Ile Arg Leu Val
305      310      315      320
Ser Val Leu Glu Leu Leu Arg Ala Pro Tyr Val Arg Trp Gln Val Val
      325      330      335
Thr Val Ile Val Thr Met Ala Cys Tyr Gln Leu Cys Gly Leu Asn Ala
      340      345      350
Ile Trp Phe Tyr Thr Asn Ser Ile Phe Gly Lys Ala Gly Ile Pro Pro
      355      360      365
Ala Lys Ile Pro Tyr Val Thr Leu Ser Thr Gly Gly Ile Glu Thr Leu
      370      375      380
Ala Ala Val Phe Ser Gly Leu Val Ile Glu His Leu Gly Arg Arg Pro
385      390      395      400
Leu Leu Ile Gly Gly Phe Gly Leu Met Gly Leu Phe Phe Gly Thr Leu
      405      410      415
Thr Ile Thr Leu Thr Leu Gln Asp His Ala Pro Trp Val Pro Tyr Leu
      420      425      430
Ser Ile Val Gly Ile Leu Ala Ile Ile Ala Ser Phe Cys Ser Gly Pro
      435      440      445
Gly Gly Ile Pro Phe Ile Leu Thr Gly Glu Phe Phe Gln Gln Ser Gln
      450      455      460
Arg Pro Ala Ala Phe Ile Ile Ala Gly Thr Val Asn Trp Leu Ser Asn
465      470      475      480
Phe Ala Val Gly Leu Leu Phe Pro Phe Ile Gln Lys Ser Leu Asp Thr
      485      490      495
Tyr Cys Phe Leu Val Phe Ala Thr Ile Cys Ile Thr Gly Ala Ile Tyr
      500      505      510
Leu Tyr Phe Val Leu Pro Glu Thr Lys Asn Arg Thr Tyr Ala Glu Ile
      515      520      525
Ser Gln Ala Phe Ser Lys Arg Asn Lys Ala Tyr Pro Pro Glu Glu Lys
530      535      540
Ile Asp Ser Ala Val Thr Asp Gly Lys Ile Asn Gly Arg Pro
545      550      555      558

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<210> 2281
 <211> 186
 <212> PRT
 <213> Homo sapiens

<400> 2281
 Ala Ala Gly Ala Val Val Ser Ala Met Pro Lys Ala Lys Gly Lys Thr
 1 5 10 15
 Arg Arg Gln Lys Phe Gly Tyr Ser Val Asn Arg Lys Arg Leu Asn Arg
 20 25 30
 Asn Ala Arg Arg Lys Ala Ala Pro Arg Ile Glu Cys Ser His Ile Arg
 35 40 45
 His Ala Trp Asp His Ala Lys Ser Val Arg Gln Asn Leu Ala Glu Met
 50 55 60
 Gly Leu Ala Val Asp Pro Asn Arg Ala Val Pro Leu Arg Lys Arg Lys
 65 70 75 80
 Val Lys Ala Met Glu Val Asp Ile Glu Glu Arg Pro Lys Glu Leu Val
 85 90 95
 Arg Lys Pro Tyr Val Leu Asn Asp Leu Glu Ala Glu Ala Ser Leu Pro
 100 105 110
 Glu Lys Lys Gly Asn Thr Leu Ser Arg Asp Leu Ile Asp Tyr Val Arg
 115 120 125
 Tyr Met Val Glu Asn His Gly Glu Asp Tyr Lys Ala Met Ala Arg Asp
 130 135 140
 Glu Lys Asn Tyr Tyr Gln Asp Thr Pro Lys Gln Ile Arg Ser Lys Ile
 145 150 155 160
 Asn Val Tyr Lys Arg Phe Tyr Pro Ala Glu Trp Gln Asp Phe Leu Asp
 165 170 175
 Ser Leu Gln Lys Arg Lys Met Glu Val Glu
 180 185 186

<210> 2282
 <211> 137
 <212> PRT
 <213> Homo sapiens

<400> 2282
 Ser Asn Leu Cys Leu Gly Asn Ser Trp Arg Trp Arg Trp Ala Lys Ser
 1 5 10 15
 Arg His His Cys Ile Pro Thr Val Thr Leu Ser Lys Arg Ser Gly Asp
 20 25 30
 Ile Arg Gly Ser His Phe Ser Ser Pro Gln Arg Gln Arg Ser Gln Arg
 35 40 45
 Val Pro Gly Lys Glu Thr Ala Arg Val Leu Arg Ala Gly Lys Gln Gly
 50 55 60
 Arg Gly Gln Ile Pro Ile Pro Cys Pro Trp Pro Pro Pro Pro Pro
 65 70 75 80
 Pro Pro Pro Gly Ser Pro Gly Pro Gly Cys Arg Gln Phe His Gln Ser
 85 90 95
 Leu Glu Ala Lys Ala Arg His Pro Ala Ser Val Arg Glu Met Arg Gly
 100 105 110
 Lys Val Lys Met Arg Arg Ala Leu Arg Arg Ala Pro Ala Ser Thr Arg
 115 120 125
 Ala Ser Ser Arg Gln Pro Asn Pro Lys
 130 135 137

<210> 2283
 <211> 309
 <212> PRT
 <213> Homo sapiens

<400> 2283

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Pro Pro Val Pro Pro Ala Ser Arg Ser Asp Met Ala Gln Asn Leu Lys
 1      5      10      15
Asp Leu Ala Gly Arg Leu Pro Ala Gly Pro Arg Gly Met Gly Thr Ala
 20      25      30
Leu Lys Leu Leu Leu Gly Ala Gly Ala Val Ala Tyr Gly Val Arg Glu
 35      40      45
Ser Val Phe Thr Val Glu Gly Gly His Arg Ala Ile Phe Phe Asn Arg
 50      55      60
Ile Gly Gly Val Gln Gln Asp Thr Ile Leu Ala Glu Gly Leu His Phe
 65      70      75      80
Arg Ile Pro Trp Phe Gln Tyr Pro Ile Ile Tyr Asp Ile Arg Ala Arg
 85      90      95
Pro Arg Lys Ile Ser Ser Pro Thr Gly Ser Lys Asp Leu Gln Met Val
100      105      110
Asn Ile Ser Leu Arg Val Leu Ser Arg Pro Asn Ala Gln Glu Leu Pro
115      120      125
Ser Met Tyr Gln Arg Leu Gly Leu Asp Tyr Glu Glu Arg Val Leu Pro
130      135      140
Ser Ile Val Asn Glu Val Leu Lys Ser Val Val Ala Lys Phe Asn Ala
145      150      155      160
Ser Gln Leu Ile Thr Gln Arg Ala Gln Val Ser Leu Leu Ile Arg Arg
165      170      175
Glu Leu Thr Glu Arg Ala Lys Asp Phe Ser Leu Ile Leu Asp Asp Val
180      185      190
Ala Ile Thr Glu Leu Ser Phe Ser Arg Glu Tyr Thr Ala Ala Val Glu
195      200      205
Ala Lys Gln Val Ala Gln Gln Glu Ala Gln Arg Ala Gln Phe Leu Val
210      215      220
Glu Lys Ala Lys Gln Glu Gln Arg Gln Lys Ile Val Gln Ala Glu Gly
225      230      235      240
Glu Ala Glu Ala Ala Lys Met Leu Gly Glu Ala Leu Ser Lys Asn Pro
245      250      255
Gly Tyr Ile Lys Leu Arg Lys Ile Arg Ala Ala Gln Asn Ile Ser Lys
260      265      270
Thr Ile Ala Thr Ser Gln Asn Arg Ile Tyr Leu Thr Ala Asp Asn Leu
275      280      285
Val Leu Asn Leu Gln Asp Glu Ser Phe Thr Arg Gly Ser Asp Ser Leu
290      295      300
Ile Lys Gly Lys Lys
305      309

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<210> 2284
<211> 242
<212> PRT
<213> Homo sapiens

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<400> 2284
Ser Gln Phe Ser Leu Ser Gln Val Leu Val Asp Ser Ala Glu Glu Gly
 1      5      10      15
Ser Leu Ala Ala Ala Ala Glu Leu Ala Ala Gln Lys Arg Glu Gln Arg
 20      25      30
Leu Arg Lys Phe Arg Glu Leu His Leu Met Arg Asn Glu Ala Arg Lys
 35      40      45
Leu Asn His Gln Glu Val Val Glu Glu Asp Lys Arg Leu Lys Leu Pro
 50      55      60
Ala Asn Trp Glu Ala Lys Lys Ala Arg Leu Glu Trp Glu Leu Lys Glu
 65      70      75      80
Glu Glu Lys Lys Lys Glu Cys Ala Ala Arg Gly Glu Asp Tyr Glu Lys
 85      90      95
Val Lys Leu Leu Glu Ile Ser Ala Glu Asp Ala Glu Arg Trp Glu Arg
100      105      110

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Lys Lys Lys Arg Lys Asn Pro Asp Leu Gly Phe Ser Asp Tyr Ala Ala
 115 120 125
 Ala Gln Leu Arg Gln Tyr His Arg Leu Thr Lys Gln Ile Lys Pro Asp
 130 135 140
 Met Glu Thr Tyr Glu Arg Leu Arg Glu Lys His Gly Glu Glu Phe Phe
 145 150 155 160
 Pro Thr Ser Asn Ser Leu Leu His Gly Thr His Val Pro Ser Thr Glu
 165 170 175
 Glu Ile Asp Arg Met Val Ile Asp Leu Glu Lys Gln Ile Glu Lys Arg
 180 185 190
 Asp Lys Tyr Ser Arg Arg Arg Pro Tyr Asn Asp Asp Ala Asp Ile Asp
 195 200 205
 Tyr Ile Asn Glu Arg Asn Ala Lys Phe Asn Lys Lys Ala Glu Arg Phe
 210 215 220
 Tyr Gly Lys Tyr Thr Ala Glu Ile Lys Gln Asn Leu Glu Arg Gly Thr
 225 230 235 240
 Ala Val
 242

<210> 2285
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 2285
 Leu Val Ser Ser Thr Val Asn Leu Leu Thr Glu Lys Ala Pro Trp Asn
 1 5 10 15
 Ser Leu Ala Trp Thr Val Thr Ser Tyr Val Phe Leu Lys Phe Leu Gln
 20 25 30
 Gly Gly Gly Thr Gly Ser Thr Gly Met Arg Asp Ser Ala Leu Thr Leu
 35 40 45
 Leu Gly Ile Gly Pro Ser His Arg His Ser Leu Ser Ile Arg Leu Ser
 50 55 60
 Gln His Ser Ser Pro Ala Pro Met Tyr Ser Gln Thr Phe His Ile Leu
 65 70 75 80
 Val Leu Gly
 83

<210> 2286
 <211> 213
 <212> PRT
 <213> Homo sapiens

<400> 2286
 Ser Gly Arg Glu Cys Asn Met Ala Lys Thr Tyr Asp Tyr Leu Phe Lys
 1 5 10 15
 Leu Leu Leu Ile Gly Asp Ser Gly Val Gly Lys Thr Cys Val Leu Phe
 20 25 30
 Arg Phe Ser Glu Asp Ala Phe Asn Ser Thr Phe Ile Ser Thr Ile Gly
 35 40 45
 Ile Asp Phe Lys Ile Arg Thr Ile Glu Leu Asp Gly Lys Arg Ile Lys
 50 55 60
 Leu Gln Ile Trp Asp Thr Ala Gly Gln Glu Arg Phe Arg Thr Ile Thr
 65 70 75 80
 Thr Ala Tyr Tyr Arg Gly Ala Met Gly Ile Met Leu Val Tyr Asp Ile
 85 90 95
 Thr Asn Glu Lys Ser Phe Asp Asn Ile Arg Asn Trp Ile Arg Asn Ile
 100 105 110

Glu Glu His Ala Ser Ala Asp Val Glu Lys Met Ile Leu Gly Asn Lys
 115 120 125
 Cys Asp Val Asn Asp Lys Arg Gln Val Ser Lys Glu Arg Gly Glu Lys
 130 135 140
 Leu Ala Leu Asp Tyr Gly Ile Lys Phe Met Glu Thr Ser Ala Lys Ala
 145 150 155 160
 Asn Ile Asn Val Glu Asn Ala Phe Phe Thr Leu Ala Arg Asp Ile Lys
 165 170 175
 Ala Lys Met Asp Lys Lys Leu Glu Gly Asn Ser Pro Gln Gly Ser Asn
 180 185 190
 Gln Gly Val Lys Ile Thr Pro Asp Gln Gln Lys Arg Ser Ser Phe Phe
 195 200 205
 Arg Cys Val Leu Leu
 210 213

<210> 2287
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 2287
 Glu Glu Thr Ile His Ser Glu Asn Ser Tyr Ile Leu Glu Lys Tyr Ile
 1 5 10 15
 Pro Ile Ser Ala Asn Leu Thr Leu Thr Ile Ala
 20 25 27

<210> 2288
 <211> 219
 <212> PRT
 <213> Homo sapiens

<400> 2288
 Leu His Pro Ala Ala Thr Ser Thr Ala Trp Leu His Val Pro Pro Gly
 1 5 10 15
 Leu Ser Met Ala Leu Ser Trp Val Leu Thr Val Leu Ser Leu Leu Pro
 20 25 30
 Leu Leu Glu Ala Gln Ile Pro Leu Cys Ala Asn Leu Val Pro Val Pro
 35 40 45
 Ile Thr Asn Ala Thr Leu Asp Arg Ile Thr Gly Lys Trp Phe Tyr Ile
 50 55 60
 Ala Ser Ala Phe Arg Asn Glu Glu Tyr Asn Lys Ser Val Gln Glu Ile
 65 70 75 80
 Gln Ala Thr Phe Phe Tyr Phe Thr Pro Asn Lys Thr Glu Asp Thr Ile
 85 90 95
 Phe Leu Arg Glu Tyr Gln Thr Arg Gln Asp Gln Cys Ile Tyr Asn Thr
 100 105 110
 Thr Tyr Leu Asn Val Gln Arg Glu Asn Gly Thr Ile Ser Arg Tyr Val
 115 120 125
 Gly Gly Gln Glu His Phe Ala His Leu Leu Ile Leu Arg Asp Thr Lys
 130 135 140
 Thr Tyr Met Leu Ala Phe Asp Val Asn Asp Glu Lys Asn Trp Gly Leu
 145 150 155 160
 Ser Val Tyr Ala Asp Lys Pro Glu Thr Thr Lys Glu Gln Leu Gly Glu
 165 170 175
 Phe Tyr Glu Ala Leu Asp Cys Leu Arg Ile Pro Lys Ser Asp Val Val
 180 185 190
 Tyr Thr Asp Trp Lys Lys Asp Lys Cys Glu Pro Leu Glu Lys Gln His
 195 200 205

Glu Lys Glu Arg Lys Gln Glu Glu Gly Glu Ser
 210 215 219

<210> 2289
 <211> 342
 <212> PRT
 <213> Homo sapiens

<400> 2289
 Ser Ser Val Ala Glu Phe Pro Glu Arg Val Gln Leu Ser Gln Pro Gln
 1 5 10 15
 Asn Trp Asn Phe Ser Gly Ala Gly Gly Ala Trp Ser Leu Asp Phe Ala
 20 25 30
 Glu Gln Leu Lys Trp Ser Ala Glu Leu Ala Arg Leu Gly Glu Ser Ile
 35 40 45
 Met Asp Gly Lys Gln Gly Gly Met Asp Gly Ser Lys Pro Ala Gly Pro
 50 55 60
 Arg Asp Phe Pro Gly Ile Arg Leu Leu Ser Asn Pro Leu Met Gly Asp
 65 70 75 80
 Ala Val Ser Asp Trp Ser Pro Met His Glu Ala Ala Ile His Gly His
 85 90 95
 Gln Leu Ser Leu Arg Asn Leu Ile Ser Gln Gly Trp Ala Val Asn Ile
 100 105 110
 Ile Thr Ala Asp His Val Ser Pro Leu His Glu Ala Cys Leu Gly Gly
 115 120 125
 His Leu Ser Cys Val Lys Ile Leu Leu Lys His Gly Ala Gln Val Asn
 130 135 140
 Gly Val Thr Ala Asp Trp His Thr Pro Leu Phe Asn Ala Cys Val Ser
 145 150 155 160
 Gly Ser Trp Asp Cys Val Asn Leu Leu Leu Gln His Gly Ala Ser Val
 165 170 175
 Gln Pro Glu Ser Asp Leu Ala Ser Pro Ile His Glu Ala Ala Arg Arg
 180 185 190
 Gly His Val Glu Cys Val Asn Ser Leu Ile Ala Tyr Gly Gly Asn Ile
 195 200 205
 Asp His Lys Ile Ser His Leu Gly Thr Pro Leu Tyr Leu Ala Cys Glu
 210 215 220
 Asn Gln Gln Arg Ala Cys Val Lys Lys Leu Leu Glu Ser Gly Ala Asp
 225 230 235 240
 Val Asn Gln Gly Lys Gly Gln Asp Ser Pro Leu His Ala Val Ala Arg
 245 250 255
 Thr Ala Ser Glu Glu Leu Ala Cys Leu Leu Met Asp Phe Gly Ala Asp
 260 265 270
 Thr Gln Ala Lys Asn Ala Glu Gly Lys Arg Pro Val Glu Leu Val Pro
 275 280 285
 Pro Glu Ser Pro Leu Ala Gln Leu Phe Leu Glu Arg Glu Gly Pro Pro
 290 295 300
 Ser Leu Met Gln Leu Cys Arg Leu Arg Ile Arg Lys Cys Phe Gly Ile
 305 310 315 320
 Gln Gln His His Lys Ile Thr Lys Leu Val Leu Pro Glu Asp Leu Lys
 325 330 335
 Gln Phe Leu Leu His Leu
 340 342

<210> 2290
 <211> 400
 <212> PRT
 <213> Homo sapiens

```

<400> 2290
Lys Val Leu Ser Ile Arg Glu Pro Ala His Ser Thr Ala Arg Lys Ala
 1           5           10           15
Ser Glu Pro Ser Gln Pro Ser Gln Pro Ser Gln Pro Gly Gly His Leu
           20           25           30
Ile Ala Arg Leu Arg Thr Met Asp Leu His Leu Phe Asp Tyr Ser Glu
           35           40           45
Pro Gly Asn Phe Ser Asp Ile Ser Trp Pro Cys Asn Ser Ser Asp Cys
           50           55           60
Ile Val Val Asp Thr Val Met Cys Pro Asn Met Pro Asn Lys Ser Val
           65           70           75           80
Leu Leu Tyr Thr Leu Ser Phe Ile Tyr Ile Phe Ile Phe Val Ile Gly
           85           90           95
Met Ile Ala Asn Ser Val Val Val Trp Val Asn Ile Gln Ala Lys Thr
           100          105          110
Thr Gly Tyr Asp Thr His Cys Tyr Ile Leu Asn Leu Ala Ile Ala Asp
           115          120          125
Leu Trp Val Val Leu Thr Ile Pro Val Trp Val Val Ser Leu Val Gln
           130          135          140
His Asn Gln Trp Pro Met Gly Glu Leu Thr Cys Lys Val Thr His Leu
145          150          155          160
Ile Phe Ser Ile Asn Leu Phe Gly Ser Ile Phe Phe Leu Thr Cys Met
           165          170          175
Ser Val Asp Arg Tyr Leu Ser Ile Thr Tyr Phe Thr Asn Thr Pro Ser
           180          185          190
Ser Arg Lys Lys Met Val Arg Arg Val Val Cys Ile Leu Val Trp Leu
           195          200          205
Leu Ala Phe Cys Val Ser Leu Pro Asp Thr Tyr Tyr Leu Lys Thr Val
           210          215          220
Thr Ser Ala Ser Asn Asn Glu Thr Tyr Cys Arg Ser Phe Tyr Pro Glu
225          230          235          240
His Ser Ile Lys Glu Trp Leu Ile Gly Met Glu Leu Val Ser Val Val
           245          250          255
Leu Gly Phe Ala Val Pro Phe Ser Ile Ile Ala Val Phe Tyr Phe Leu
           260          265          270
Leu Ala Arg Ala Ile Ser Ala Ser Ser Asp Gln Glu Lys His Ser Ser
           275          280          285
Arg Lys Ile Ile Phe Ser Tyr Val Val Val Phe Leu Val Cys Trp Leu
           290          295          300
Pro Tyr His Val Ala Val Leu Leu Asp Ile Phe Ser Ile Leu His Tyr
305          310          315          320
Ile Pro Phe Thr Cys Arg Leu Glu His Ala Leu Phe Thr Ala Leu His
           325          330          335
Val Thr Gln Cys Leu Ser Leu Val His Cys Cys Val Asn Pro Val Leu
           340          345          350
Tyr Ser Phe Ile Asn Arg Asn Tyr Arg Tyr Glu Leu Met Lys Ala Phe
           355          360          365
Ile Phe Lys Tyr Ser Ala Lys Thr Gly Leu Thr Lys Leu Ile Asp Ala
           370          375          380
Ser Arg Val Ser Glu Thr Glu Tyr Ser Ala Leu Glu Gln Ser Thr Lys
385          390          395          400

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<210> 2291
<211> 120
<212> PRT
<213> Homo sapiens

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<400> 2291

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```

Asp Met Ala Gly Leu Met Thr Ile Val Thr Ser Leu Leu Phe Leu Gly
 1          5          10          15
Val Cys Ala His His Ile Ile Pro Thr Gly Ser Val Val Leu Pro Ser
          20          25          30
Pro Cys Cys Met Phe Phe Val Ser Lys Arg Ile Pro Glu Asn Arg Val
          35          40          45
Val Ser Tyr Gln Leu Ser Ser Arg Ser Thr Cys Leu Lys Ala Gly Val
          50          55          60
Ile Phe Thr Thr Lys Lys Gly Gln Gln Phe Cys Gly Asp Pro Lys Gln
          65          70          75          80
Glu Trp Val Gln Arg Tyr Met Lys Asn Leu Asp Ala Lys Gln Lys Lys
          85          90          95
Ala Ser Pro Arg Ala Arg Ala Val Ala Val Lys Gly Pro Val Gln Arg
          100          105          110
Tyr Pro Gly Asn Gln Thr Thr Cys
          115          120

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<210> 2292
<211> 328
<212> PRT
<213> Homo sapiens

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```

<400> 2292
Gly Gly Ile Gly Glu Ile Lys Gln Arg Pro Ser Cys Leu Gly Arg Cys
 1          5          10          15
Leu Asp Pro Ser Leu Ser Val Leu Met Asn Ile Ser Leu Gly Leu Gly
          20          25          30
Ser Val Phe Ser Ala Val Ile Ser Gln Lys Pro Ser Arg Asp Ile Cys
          35          40          45
Gln Arg Gly Thr Ser Leu Thr Ile Gln Cys Gln Val Asp Ser Gln Val
          50          55          60
Thr Met Met Phe Trp Tyr Arg Gln Gln Pro Gly Gln Ser Leu Thr Leu
          65          70          75          80
Ile Ala Thr Ala Asn Gln Gly Ser Glu Ala Thr Tyr Glu Ser Gly Phe
          85          90          95
Val Ile Asp Lys Phe Pro Ile Ser Arg Pro Asn Leu Thr Phe Ser Thr
          100          105          110
Leu Thr Val Ser Asn Met Ser Pro Glu Asp Ser Ser Ile Tyr Leu Cys
          115          120          125
Ser Ala Gly Arg Gln Gly Thr Tyr Glu Gln Tyr Phe Gly Pro Gly Thr
          130          135          140
Arg Leu Thr Val Thr Glu Asp Leu Lys Asn Val Phe Pro Pro Glu Val
          145          150          155          160
Ala Val Phe Glu Pro Ser Glu Ala Glu Ile Ser His Thr Gln Lys Ala
          165          170          175
Thr Leu Val Cys Leu Ala Thr Gly Phe Tyr Pro Asp His Val Glu Leu
          180          185          190
Ser Trp Trp Val Asn Gly Lys Glu Val His Ser Gly Val Ser Thr Asp
          195          200          205
Pro Gln Pro Leu Lys Glu Gln Pro Ala Leu Asn Asp Ser Arg Tyr Cys
          210          215          220
Leu Ser Ser Arg Leu Arg Val Ser Ala Thr Phe Trp Gln Asn Pro Arg
          225          230          235          240
Asn His Phe Arg Cys Gln Val Gln Phe Tyr Gly Leu Ser Glu Asn Asp
          245          250          255
Glu Trp Thr Gln Asp Arg Ala Lys Pro Val Thr Gln Ile Val Ser Ala
          260          265          270
Glu Ala Trp Gly Arg Ala Asp Cys Gly Phe Thr Ser Glu Ser Tyr Gln
          275          280          285
Gln Gly Val Leu Ser Ala Thr Ile Leu Tyr Glu Ile Leu Leu Gly Lys
          290          295          300

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Ala Thr Leu Tyr Ala Val Leu Val Ser Ala Leu Val Leu Met Ala Met
 305 310 315 320
 Val Lys Arg Lys Asp Ser Arg Gly
 325 328

<210> 2293
 <211> 293
 <212> PRT
 <213> Homo sapiens

<400> 2293
 Met Val Lys Val Val Pro Ala Thr Arg Gly Asn Leu Pro Arg Ser Gln
 1 5 10 15
 Leu Thr Gly Thr His Gln His Cys Gln Pro Arg Glu Pro Lys Ile Thr
 20 25 30
 Ala Ser Glu Arg Leu Arg Arg Arg Pro Arg Ala Thr Ala Arg Leu Arg
 35 40 45
 Ala His Ala Ala Pro Pro Glu Pro Pro Leu Ala Val Phe Ala Pro Pro
 50 55 60
 Ser Asp Arg Lys Glu Leu Leu Ala Leu Pro Val Ala Cys Asp Pro Val
 65 70 75 80
 Ile Ala Ser Val Met Ser Trp Val Gln Ala Ser Leu Ile Gln Gly
 85 90 95
 Pro Gly Asp Lys Gly Asp Val Phe Asp Glu Glu Ala Asp Glu Ser Leu
 100 105 110
 Leu Ala Gln Arg Glu Trp Gln Ser Asn Met Gln Arg Arg Val Lys Glu
 115 120 125
 Gly Tyr Arg Asp Gly Ile Asp Ala Gly Lys Ala Val Thr Leu Gln Gln
 130 135 140
 Gly Phe Asn Gln Gly Tyr Lys Lys Gly Ala Glu Val Ile Leu Asn Tyr
 145 150 155 160
 Gly Arg Leu Arg Gly Thr Leu Ser Ala Leu Leu Ser Trp Cys His Leu
 165 170 175
 His Asn Asn Asn Ser Thr Leu Ile Asn Lys Ile Asn Asn Leu Leu Asp
 180 185 190
 Ala Val Gly Gln Cys Glu Glu Tyr Val Leu Lys His Leu Lys Ser Ile
 195 200 205
 Thr Pro Pro Ser His Val Val Asp Leu Leu Asp Ser Ile Glu Asp Met
 210 215 220
 Asp Leu Cys His Val Val Pro Ala Glu Lys Lys Ile Asp Glu Ala Lys
 225 230 235 240
 Asp Glu Arg Leu Cys Glu Asn Asn Ala Glu Phe Asn Lys Asn Cys Ser
 245 250 255
 Lys Ser His Ser Gly Ile Asp Cys Ser Tyr Val Glu Cys Cys Arg Thr
 260 265 270
 Gln Glu His Ala His Ser Gly Lys Pro Lys Pro His Met Asp Phe Gly
 275 280 285
 Thr Asp Ser Gln Phe
 290 293

<210> 2294
 <211> 265
 <212> PRT
 <213> Homo sapiens

<400> 2294
 Glu Ser Ala Arg Trp Ser Arg Gln Leu Arg Arg Thr Leu Ile Arg Leu
 1 5 10 15

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Ser Phe Pro Ile Ser Cys Gly Arg Ser His Ala Phe Gly Gly Cys Lys
      20      25      30
Met Ala Ala Thr Ser Gly Thr Asp Glu Pro Val Ser Gly Glu Leu Val
      35      40      45
Ser Val Ala His Ala Leu Ser Leu Pro Ala Glu Ser Tyr Gly Asn Asp
      50      55      60
Pro Asp Ile Glu Met Ala Trp Ala Met Arg Ala Met Gln His Ala Glu
      65      70      75      80
Val Tyr Tyr Lys Leu Ile Ser Ser Val Asp Pro Gln Phe Leu Lys Leu
      85      90      95
Thr Lys Val Asp Asp Gln Ile Tyr Ser Glu Phe Arg Lys Asn Phe Glu
      100      105      110
Thr Leu Arg Ile Asp Val Leu Asp Pro Glu Glu Leu Lys Ser Glu Ser
      115      120      125
Ala Lys Glu Lys Trp Arg Pro Phe Cys Leu Lys Phe Asn Gly Ile Val
      130      135      140
Glu Asp Phe Asn Tyr Gly Thr Leu Leu Arg Leu Asp Cys Ser Gln Gly
      145      150      155      160
Tyr Thr Glu Glu Asn Thr Ile Phe Ala Pro Arg Ile Gln Phe Phe Ala
      165      170      175
Ile Glu Ile Ala Arg Asn Arg Glu Gly Tyr Asn Lys Ala Val Tyr Ile
      180      185      190
Ser Val Gln Asp Lys Glu Gly Glu Lys Gly Val Asn Asn Gly Gly Glu
      195      200      205
Lys Arg Ala Asp Ser Gly Glu Glu Glu Asn Thr Lys Asn Gly Gly Glu
      210      215      220
Lys Gly Ala Asp Ser Gly Glu Glu Lys Glu Glu Gly Ile Asn Arg Glu
      225      230      235      240
Asp Lys Thr Asp Lys Gly Gly Glu Lys Gly Lys Glu Ala Asp Lys Glu
      245      250      255
Ile Asn Lys Ser Gly Glu Lys Ala Met
      260      265

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<210> 2295

<211> 167

<212> PRT

<213> Homo sapiens

<400> 2295

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Gly Ala Ala Thr Leu Leu Arg Ser Ala Ser Ser Ala Ala Arg Lys Ala
  1      5      10      15
Ala Glu Ala Glu Gln Val Trp Leu His Leu His Arg Tyr Leu Ser Ala
      20      25      30
Asp Arg Arg Val Leu Gly Leu Arg Glu Trp Gly Arg Pro Ala Ser Glu
      35      40      45
Arg Glu Cys Ser Leu Cys Gln Arg Leu Lys Arg Glu Leu Asn Met Gly
      50      55      60
Asp Val Glu Lys Gly Lys Lys Ile Phe Ile Met Lys Cys Ser Gln Cys
      65      70      75      80
His Thr Val Glu Lys Gly Gly Lys His Lys Thr Gly Pro Asn Leu His
      85      90      95
Gly Leu Phe Gly Arg Lys Thr Gly Gln Ala Pro Gly Tyr Ser Tyr Thr
      100      105      110
Ala Ala Asn Lys Asn Lys Gly Ile Ile Trp Gly Glu Asp Thr Leu Met
      115      120      125
Glu Tyr Leu Glu Asn Pro Lys Lys Tyr Ile Pro Gly Thr Lys Met Ile
      130      135      140
Phe Val Gly Ile Lys Lys Lys Glu Glu Arg Ala Asp Leu Ile Ala Tyr
      145      150      155      160
Leu Lys Lys Ala Thr Asn Glu
      165      167

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<210> 2296
 <211> 182
 <212> PRT
 <213> Homo sapiens

<400> 2296
 Glu Gly Arg Arg Gly Lys Phe Gly Gly Lys Leu Cys Asn Phe Leu Phe
 1 5 10 15
 Tyr Phe His Ser Asn Ser Ala Glu Ser Arg Met Asp Val Leu Phe Val
 20 25 30
 Ala Ile Phe Ala Val Pro Leu Ile Leu Gly Gln Glu Tyr Glu Asp Glu
 35 40 45
 Glu Arg Leu Gly Glu Asp Glu Tyr Tyr Gln Val Val Tyr Tyr Tyr Thr
 50 55 60
 Val Thr Pro Ser Tyr Asp Asp Phe Ser Ala Asp Phe Thr Ile Asp Tyr
 65 70 75 80
 Ser Ile Phe Glu Ser Glu Asp Arg Leu Asn Arg Leu Asp Lys Asp Ile
 85 90 95
 Thr Glu Ala Ile Glu Thr Thr Ile Ser Leu Glu Thr Ala Arg Ala Asp
 100 105 110
 His Pro Lys Pro Val Thr Val Lys Pro Val Thr Thr Glu Pro Gln Ser
 115 120 125
 Pro Arg Ser Glu Ala Met Pro Cys Pro Val Leu Arg Ser Pro Ile Pro
 130 135 140
 Leu Pro Pro Val Arg Val Pro Leu Phe Arg Trp Gly Cys Ile Ser Cys
 145 150 155 160
 Lys Lys Val Gly Arg Arg Leu Leu Met Thr Leu Trp Met Gly Val Trp
 165 170 175
 Gln Glu Glu Ile Gly Arg
 180 182

<210> 2297
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 2297
 Gly Gly Gly Ser Ser Pro Arg Glu Leu Ala Gly Ala Ala Gly Leu Thr
 1 5 10 15
 Val Thr Ser Gln Ala Val Ala Ala Arg Arg Gln Gln Pro Ser Phe Ser
 20 25 30
 Arg Ala Arg Ala Pro Ala His Ser Leu Arg Ala Ala Leu Ser Leu Ala
 35 40 45
 Ser Ser Ala Arg Ser Trp Gly Ala Val Ser Arg Asp Arg Gly Pro Cys
 50 55 60
 Pro Pro Ala Ile Met Tyr Gln Ser Ser Asn Lys Cys
 65 70 75 76

<210> 2298
 <211> 1020
 <212> PRT
 <213> Homo sapiens

<400> 2298


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Met Glu Pro Gly Glu Val Lys Asp Arg Ile Leu Glu Asn Ile Ser Leu
 1          5          10          15
Ser Val Lys Lys Leu Gln Ser Tyr Phe Ala Ala Cys Glu Asp Glu Ile
          20          25          30
Pro Ala Ile Arg Asn His Asp Lys Val Leu Gln Arg Leu Cys Glu His
          35          40          45
Leu Asp His Ala Leu Leu Tyr Gly Leu Gln Asp Leu Ser Ser Gly Tyr
          50          55          60
Trp Val Leu Val Val His Phe Thr Arg Arg Glu Ala Ile Lys Gln Ile
          65          70          75          80
Glu Val Leu Gln His Val Ala Thr Asn Leu Gly Arg Ser Arg Ala Trp
          85          90          95
Leu Tyr Leu Ala Leu Asn Glu Asn Ser Leu Glu Ser Tyr Leu Arg Leu
          100          105          110
Phe Gln Glu Asn Leu Gly Leu Leu His Lys Tyr Tyr Val Lys Asn Ala
          115          120          125
Leu Val Cys Ser His Asp His Leu Thr Leu Phe Leu Thr Leu Val Ser
          130          135          140
Gly Leu Glu Phe Ile Arg Phe Glu Leu Asp Leu Asp Ala Pro Tyr Leu
          145          150          155          160
Asp Leu Ala Pro Tyr Met Pro Asp Tyr Tyr Lys Pro Gln Tyr Leu Leu
          165          170          175
Asp Phe Glu Asp Arg Leu Pro Ser Ser Val His Gly Ser Asp Ser Leu
          180          185          190
Ser Leu Asn Ser Phe Asn Ser Val Thr Ser Thr Asn Leu Glu Trp Asp
          195          200          205
Asp Ser Ala Ile Ala Pro Ser Ser Glu Asp Tyr Asp Phe Gly Asp Val
          210          215          220
Phe Pro Ala Val Pro Ser Val Pro Ser Thr Asp Trp Glu Asp Gly Asp
          225          230          235          240
Leu Thr Asp Thr Val Ser Gly Pro Arg Ser Thr Ala Ser Asp Leu Thr
          245          250          255
Ser Ser Lys Ala Ser Thr Arg Ser Pro Thr Gln Arg Gln Asn Pro Phe
          260          265          270
Asn Glu Glu Pro Ala Glu Thr Val Ser Ser Ser Asp Thr Thr Pro Val
          275          280          285
His Thr Thr Ser Gln Glu Lys Glu Glu Ala Gln Ala Leu Asp Pro Pro
          290          295          300
Asp Ala Cys Thr Glu Leu Glu Val Ile Arg Val Thr Lys Lys Lys Lys
          305          310          315          320
Ile Gly Lys Lys Lys Lys Ser Arg Ser Asp Glu Glu Ala Ser Pro Leu
          325          330          335
His Pro Ala Cys Ser Gln Lys Lys Cys Ala Lys Gln Gly Asp Gly Asp
          340          345          350
Ser Arg Asn Gly Ser Pro Ser Leu Gly Arg Asp Ser Pro Asp Thr Met
          355          360          365
Leu Ala Ser Pro Gln Glu Glu Gly Glu Gly Pro Ser Ser Thr Thr Glu
          370          375          380
Ser Ser Glu Arg Ser Glu Pro Gly Leu Leu Ile Pro Glu Met Lys Asp
          385          390          395          400
Thr Ser Met Glu Arg Leu Gly Gln Pro Leu Ser Lys Val Ile Asp Gln
          405          410          415
Leu Asn Gly Gln Leu Asp Pro Ser Thr Trp Cys Ser Arg Ala Glu Pro
          420          425          430
Pro Asp Gln Ser Phe Arg Thr Gly Ser Pro Gly Asp Ala Pro Glu Arg
          435          440          445
Pro Pro Leu Cys Asp Phe Ser Glu Gly Leu Ser Ala Pro Met Asp Phe
          450          455          460
Tyr Arg Phe Thr Val Glu Ser Pro Ser Thr Val Thr Ser Gly Gly Gly
          465          470          475          480
His His Asp Pro Ala Gly Leu Gly Gln Pro Leu His Val Pro Ser Ser
          485          490          495
Pro Glu Ala Ala Gly Gln Glu Glu Glu Gly Gly Gly Glu Gly Gln
          500          505          510

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Thr Pro Arg Pro Leu Glu Asp Thr Thr Arg Glu Ala Gln Glu Leu Glu
 515 520 525
 Ala Gln Leu Ser Leu Val Arg Glu Gly Pro Val Ser Glu Pro Glu Pro
 530 535 540
 Gly Thr Gln Glu Val Leu Cys Gln Leu Lys Arg Asp Gln Pro Ser Pro
 545 550 555 560
 Cys Leu Ser Ser Ala Glu Asp Ser Gly Val Asp Glu Gly Gln Gly Ser
 565 570 575
 Pro Ser Glu Met Val His Ser Ser Glu Phe Arg Val Asp Asn Asn His
 580 585 590
 Leu Leu Leu Leu Met Ile His Val Phe Arg Glu Asn Glu Glu Gln Leu
 595 600 605
 Phe Lys Met Ile Arg Met Ser Thr Gly His Met Glu Gly Asn Leu Gln
 610 615 620
 Leu Leu Tyr Val Leu Leu Thr Asp Cys Tyr Val Tyr Leu Leu Arg Lys
 625 630 635 640
 Gly Ala Thr Glu Lys Pro Tyr Leu Val Glu Glu Ala Val Ser Tyr Asn
 645 650 655
 Glu Leu Asp Tyr Val Ser Val Gly Leu Asp Gln Gln Thr Val Lys Leu
 660 665 670
 Val Cys Thr Asn Arg Arg Lys Gln Phe Leu Leu Asp Thr Ala Asp Val
 675 680 685
 Ala Leu Ala Glu Phe Phe Leu Ala Ser Leu Lys Ser Ala Met Ile Lys
 690 695 700
 Gly Cys Arg Glu Pro Pro Tyr Pro Ser Ile Leu Thr Asp Ala Thr Met
 705 710 715 720
 Glu Lys Leu Ala Leu Ala Lys Phe Val Ala Gln Glu Ser Lys Cys Glu
 725 730 735
 Ala Ser Ala Val Thr Val Arg Phe Tyr Gly Leu Val His Trp Glu Asp
 740 745 750
 Pro Thr Asp Glu Ser Leu Gly Pro Thr Pro Cys His Cys Ser Pro Pro
 755 760 765
 Glu Gly Thr Ile Thr Lys Glu Gly Met Leu His Tyr Lys Ala Gly Thr
 770 775 780
 Ser Tyr Leu Gly Lys Glu His Trp Lys Thr Cys Phe Val Val Leu Ser
 785 790 795 800
 Asn Gly Ile Leu Tyr Gln Tyr Pro Asp Arg Thr Asp Val Ile Pro Leu
 805 810 815
 Leu Ser Val Asn Met Gly Gly Glu Gln Cys Gly Gly Cys Arg Arg Ala
 820 825 830
 Asn Thr Thr Asp Arg Pro His Ala Phe Gln Val Ile Leu Ser Asp Pro
 835 840 845
 Pro Cys Leu Glu Leu Ser Ala Glu Ser Glu Ala Glu Met Ala Glu Trp
 850 855 860
 Met Gln His Leu Cys Gln Ala Val Ser Lys Gly Val Ile Pro Gln Gly
 865 870 875 880
 Val Ala Pro Ser Pro Cys Ile Pro Cys Cys Leu Val Leu Thr Asp Asp
 885 890 895
 Arg Leu Phe Thr Cys His Glu Asp Cys Gln Thr Ser Phe Phe Arg Ser
 900 905 910
 Leu Gly Thr Ala Lys Leu Gly Asp Ile Ser Ala Val Ser Thr Glu Pro
 915 920 925
 Gly Lys Glu Tyr Cys Val Leu Glu Phe Ser Gln Asp Ser Gln Gln Leu
 930 935 940
 Leu Pro Pro Trp Val Ile Tyr Leu Ser Cys Thr Ser Glu Leu Asp Arg
 945 950 955 960
 Leu Leu Ser Ala Leu Asn Ser Gly Trp Lys Thr Ile Tyr Gln Val Asp
 965 970 975
 Leu Pro His Thr Ala Ile Gln Glu Ala Ser Asn Lys Lys Lys Phe Glu
 980 985 990
 Asp Ala Leu Ser Leu Ile His Ser Ala Trp Gln Arg Ser Asp Ser Leu
 995 1000 1005
 Cys Arg Gly Arg Ala Ser Arg Asp Pro Trp Cys *
 1010 1015 1019

<210> 2299
 <211> 788
 <212> PRT
 <213> Homo sapiens

<400> 2299
 Ala Arg Arg Ala Asp Thr Val Leu Leu Glu Ser Pro Ser Met Leu Gln
 1 5 10 15
 Gly Leu Leu Pro Val Ser Leu Leu Leu Ser Val Ala Val Ser Ala Ile
 20 25 30
 Lys Glu Leu Pro Gly Val Lys Lys Tyr Glu Val Val Tyr Pro Ile Arg
 35 40 45
 Leu His Pro Leu His Lys Arg Glu Ala Lys Glu Pro Glu Gln Gln Glu
 50 55 60
 Gln Phe Glu Thr Glu Leu Lys Tyr Lys Met Thr Ile Asn Gly Lys Ile
 65 70 75 80
 Ala Val Leu Tyr Leu Lys Lys Asn Lys Asn Leu Leu Ala Pro Gly Tyr
 85 90 95
 Thr Glu Thr Tyr Tyr Asn Ser Thr Gly Lys Glu Ile Thr Thr Ser Pro
 100 105 110
 Gln Ile Met Asp Asp Cys Tyr Tyr Gln Gly His Ile Leu Asn Glu Lys
 115 120 125
 Val Ser Asp Ala Ser Ile Ser Thr Cys Arg Gly Leu Arg Gly Tyr Phe
 130 135 140
 Ser Gln Gly Asp Gln Arg Tyr Phe Ile Glu Pro Leu Ser Pro Ile His
 145 150 155 160
 Arg Asp Gly Gln Glu His Ala Leu Phe Lys Tyr Asn Pro Asp Glu Lys
 165 170 175
 Asn Tyr Asp Ser Thr Cys Gly Met Asp Gly Val Leu Trp Ala His Asp
 180 185 190
 Leu Gln Gln Asn Ile Ala Leu Pro Ala Thr Lys Leu Val Lys Leu Lys
 195 200 205
 Asp Arg Lys Val Gln Glu His Glu Lys Tyr Ile Glu Tyr Tyr Leu Val
 210 215 220
 Leu Asp Asn Gly Glu Phe Lys Arg Tyr Asn Glu Asn Gln Asp Glu Ile
 225 230 235 240
 Arg Lys Arg Val Phe Glu Met Ala Asn Tyr Val Asn Met Leu Tyr Lys
 245 250 255
 Lys Leu Asn Thr His Val Ala Leu Val Gly Met Glu Ile Trp Thr Asp
 260 265 270
 Lys Asp Lys Ile Lys Ile Thr Pro Asn Ala Ser Phe Thr Leu Glu Asn
 275 280 285
 Phe Ser Lys Trp Arg Gly Ser Val Leu Ser Arg Arg Lys Arg His Asp
 290 295 300
 Ile Ala Gln Leu Ile Thr Ala Thr Glu Leu Ala Gly Thr Thr Val Gly
 305 310 315 320
 Leu Ala Phe Met Ser Thr Met Cys Ser Pro Tyr Ser Val Gly Val Val
 325 330 335
 Gln Asp His Ser Asp Asn Leu Leu Arg Val Ala Gly Thr Met Ala His
 340 345 350
 Glu Met Gly His Asn Phe Gly Met Phe His Asp Asp Tyr Ser Cys Lys
 355 360 365
 Cys Pro Ser Thr Ile Cys Val Met Asp Lys Ala Leu Ser Phe Tyr Ile
 370 375 380
 Pro Thr Asp Phe Ser Ser Cys Ser Arg Leu Ser Tyr Asp Lys Phe Phe
 385 390 395 400
 Glu Asp Lys Leu Ser Asn Cys Leu Phe Asn Ala Pro Leu Pro Thr Asp
 405 410 415
 Ile Ile Ser Thr Pro Ile Cys Gly Asn Gln Leu Val Glu Met Gly Glu
 420 425 430

Asp Cys Asp Cys Gly Thr Ser Glu Glu Cys Thr Asn Ile Cys Cys Asp
 435 440 445
 Ala Lys Thr Cys Lys Ile Lys Ala Thr Phe Gln Cys Ala Leu Gly Glu
 450 455 460
 Cys Cys Glu Lys Cys Gln Phe Lys Lys Ala Gly Met Val Cys Arg Pro
 465 470 475 480
 Ala Lys Asp Glu Cys Asp Leu Pro Glu Met Cys Asn Gly Lys Ser Gly
 485 490 495
 Asn Cys Pro Asp Asp Arg Phe Gln Val Asn Gly Phe Pro Cys His His
 500 505 510
 Gly Lys Gly His Cys Leu Met Gly Thr Cys Pro Thr Leu Gln Glu Gln
 515 520 525
 Cys Thr Glu Leu Trp Gly Pro Gly Thr Glu Val Ala Asp Lys Ser Cys
 530 535 540
 Tyr Asn Arg Asn Glu Gly Ser Lys Tyr Gly Tyr Cys Arg Arg Val
 545 550 555 560
 Asp Asp Thr Leu Ile Pro Cys Lys Ala Asn Asp Thr Met Cys Gly Lys
 565 570 575
 Leu Phe Cys Gln Gly Gly Ser Asp Asn Leu Pro Trp Lys Gly Arg Ile
 580 585 590
 Val Thr Phe Leu Thr Cys Lys Thr Phe Asp Pro Glu Asp Thr Ser Gln
 595 600 605
 Glu Ile Gly Met Val Ala Asn Gly Thr Lys Cys Gly Asp Asn Lys Val
 610 615 620
 Cys Ile Asn Ala Glu Cys Val Asp Ile Glu Lys Ala Tyr Lys Ser Thr
 625 630 635 640
 Asn Cys Ser Ser Lys Cys Lys Gly His Ala Val Cys Asp His Glu Leu
 645 650 655
 Gln Cys Gln Cys Glu Glu Gly Trp Ile Pro Pro Asp Cys Asp Asp Ser
 660 665 670
 Ser Val Val Phe His Phe Ser Ile Val Val Gly Val Leu Phe Pro Met
 675 680 685
 Ala Val Ile Phe Val Val Val Ala Met Val Ile Arg His Gln Ser Ser
 690 695 700
 Arg Glu Lys Gln Lys Lys Asp Gln Arg Pro Leu Ser Thr Thr Gly Thr
 705 710 715 720
 Arg Pro His Lys Gln Lys Arg Lys Pro Gln Met Val Lys Ala Val Gln
 725 730 735
 Pro Gln Glu Met Ser Gln Met Lys Pro His Val Tyr Asp Leu Pro Val
 740 745 750
 Glu Gly Asn Glu Pro Pro Ala Ser Phe His Lys Asp Thr Asn Ala Leu
 755 760 765
 Pro Pro Thr Val Phe Lys Asp Asn Pro Met Ser Thr Pro Lys Asp Ser
 770 775 780
 Asn Pro Lys Ala
 785 788

<210> 2300
 <211> 417
 <212> PRT
 <213> Homo sapiens

<400> 2300
 Met Gly Leu Leu Leu Met Ile Leu Ala Ser Ala Val Leu Gly Ser Phe
 1 5 10 15
 Leu Thr Leu Leu Ala Gln Phe Phe Leu Tyr Arg Arg Gln Pro Glu
 20 25 30
 Pro Pro Ala Asp Glu Ala Ala Arg Ala Gly Glu Gly Phe Arg Tyr Ile
 35 40 45
 Lys Pro Val Pro Gly Leu Leu Leu Arg Glu Tyr Leu Tyr Gly Gly Gly
 50 55 60

Arg Asp Glu Glu Pro Ser Gly Ala Ala Pro Glu Gly Gly Ala Thr Pro
 65 70 75 80
 Thr Ala Ala Pro Glu Thr Pro Ala Pro Pro Thr Arg Glu Thr Cys Tyr
 85 90 95
 Phe Leu Asn Ala Thr Ile Leu Phe Leu Phe Arg Glu Leu Arg Asp Thr
 100 105 110
 Ala Leu Thr Arg Arg Trp Val Thr Lys Lys Ile Lys Val Glu Phe Glu
 115 120 125
 Glu Leu Leu Gln Thr Lys Thr Ala Gly Arg Leu Leu Glu Gly Leu Ser
 130 135 140
 Leu Arg Asp Val Phe Leu Gly Glu Thr Val Pro Phe Ile Lys Thr Ile
 145 150 155 160
 Arg Leu Val Arg Pro Val Val Pro Ser Ala Thr Gly Glu Pro Asp Gly
 165 170 175
 Pro Glu Gly Glu Ala Leu Pro Ala Ala Cys Pro Glu Glu Leu Ala Phe
 180 185 190
 Glu Ala Glu Val Glu Tyr Asn Gly Gly Phe His Leu Ala Ile Asp Val
 195 200 205
 Asp Leu Val Phe Gly Lys Ser Ala Tyr Leu Phe Val Lys Leu Ser Arg
 210 215 220
 Val Val Gly Arg Leu Arg Leu Val Phe Thr Arg Val Pro Phe Thr His
 225 230 235 240
 Trp Phe Phe Ser Phe Val Glu Asp Pro Leu Ile Asp Phe Glu Val Arg
 245 250 255
 Ser Gln Phe Glu Gly Arg Pro Met Pro Gln Leu Thr Ser Ile Ile Val
 260 265 270
 Asn Gln Leu Lys Lys Ile Ile Lys Arg Lys His Thr Leu Pro Asn Tyr
 275 280 285
 Lys Ile Arg Phe Lys Pro Phe Phe Pro Tyr Gln Thr Leu Gln Gly Phe
 290 295 300
 Glu Glu Asp Glu Glu His Ile His Ile Gln Gln Trp Ala Leu Thr Glu
 305 310 315 320
 Gly Arg Leu Lys Val Thr Leu Leu Glu Cys Ser Arg Leu Leu Ile Phe
 325 330 335
 Gly Ser Tyr Asp Arg Glu Ala Asn Val His Cys Thr Leu Glu Leu Ser
 340 345 350
 Ser Ser Val Trp Glu Glu Lys Gln Arg Ser Ser Ile Lys Thr Gly Thr
 355 360 365
 Ile Ser Leu Thr Ala Val Phe Met Gly Trp His Arg Val Ser Glu Ala
 370 375 380
 Phe Pro Gly Leu Trp Tyr Lys Leu Leu Val Asp Leu Pro Phe Trp Gly
 385 390 395 400
 Leu Glu Asp Gly Gly Pro Leu Leu Thr Val Pro Leu Arg Gln Cys Pro
 405 410 415
 Gly
 417

<210> 2301

<211> 257

<212> PRT

<213> Homo sapiens

<400> 2301

Glu Val Ala Leu Phe Cys Phe Glu Met Ala Ala Gly Met Tyr Leu Glu
 1 5 10 15
 His Tyr Leu Asp Ser Ile Glu Asn Leu Pro Phe Glu Leu Gln Arg Asn
 20 25 30
 Phe Gln Leu Met Arg Asp Leu Asp Gln Arg Thr Glu Asp Leu Lys Ala
 35 40 45
 Glu Ile Asp Lys Leu Ala Thr Glu Tyr Met Ser Ser Ala Arg Ser Leu
 50 55 60

Ser Ser Glu Glu Lys Leu Ala Leu Leu Lys Gln Ile Gln Glu Ala Tyr
 65 70 75 80
 Gly Lys Cys Lys Glu Phe Gly Asp Asp Lys Val Gln Leu Ala Met Gln
 85 90 95
 Thr Tyr Glu Met Val Asp Lys His Ile Arg Arg Leu Asp Thr Asp Leu
 100 105 110
 Ala Arg Phe Glu Ala Asp Leu Lys Glu Lys Gln Ile Glu Ser Ser Asp
 115 120 125
 Tyr Asp Ser Ser Ser Ser Lys Gly Lys Lys Lys Gly Arg Thr Gln Lys
 130 135 140
 Glu Lys Lys Ala Ala Arg Ala Arg Ser Lys Gly Lys Asn Ser Asp Glu
 145 150 155 160
 Glu Ala Pro Lys Thr Ala Gln Lys Lys Leu Lys Leu Val Arg Thr Ser
 165 170 175
 Pro Glu Tyr Gly Met Pro Ser Val Thr Phe Gly Ser Val His Pro Ser
 180 185 190
 Asp Val Leu Asp Met Pro Val Asp Pro Asn Glu Pro Thr Tyr Cys Leu
 195 200 205
 Cys His Gln Val Ser Tyr Gly Glu Met Ile Gly Cys Asp Asn Pro Asp
 210 215 220
 Cys Ser Ile Glu Trp Phe His Phe Ala Cys Val Gly Leu Thr Thr Lys
 225 230 235 240
 Pro Arg Gly Lys Trp Phe Cys Pro Arg Cys Ser Gln Glu Arg Lys Lys
 245 250 255
 Lys
 257

<210> 2302
 <211> 101
 <212> PRT
 <213> Homo sapiens

<400> 2302
 Pro Ser Val Ala Ser Leu Ala Arg Arg Phe Ser Gly Arg Ala Leu Trp
 1 5 10 15
 Pro Pro Ser His Ser Val Pro Gly Asn Arg Ala Leu Cys Pro Arg Leu
 20 25 30
 Leu His Gly Thr Thr Leu Pro Gly Gly Asn Gln Arg Glu Leu Ala Arg
 35 40 45
 Gln Lys Asn Met Lys Lys Gln Ser Asp Ser Val Lys Gly Lys Arg Arg
 50 55 60
 Asp Asp Gly Leu Ser Ala Ala Arg Lys Gln Arg Asp Ser Thr Pro
 65 70 75 80
 Arg Asp Ser Glu Ile Met Gln Gln Lys Gln Lys Lys Ala Asn Glu Lys
 85 90 95
 Lys Glu Glu Pro Lys
 100 101

<210> 2303
 <211> 223
 <212> PRT
 <213> Homo sapiens

<400> 2303
 Val Cys Ala Gly Ile Arg Asp Pro Cys Ser Thr Pro Leu Ala Lys Pro
 1 5 10 15
 Ala Ala Gly Gly Ala Glu Asn Leu Ser Phe Gly Lys Gln Pro Gly Leu
 20 25 30

Glu Thr Asn Ile Leu Lys Met Thr Thr Pro Asn Lys Thr Pro Pro Gly
 35 40 45
 Ala Asp Pro Lys Gln Leu Glu Arg Thr Gly Thr Val Arg Glu Ile Gly
 50 55 60
 Ser Gln Ala Val Trp Ser Leu Ser Ser Cys Lys Pro Gly Phe Gly Val
 65 70 75 80
 Asp Gln Leu Arg Asp Asn Leu Glu Thr Tyr Trp Gln Ser Asp Gly
 85 90 95
 Ser Gln Pro His Leu Val Asn Ile Gln Phe Arg Arg Lys Thr Thr Val
 100 105 110
 Lys Thr Leu Cys Ile Tyr Ala Asp Tyr Lys Ser Asp Glu Ser Tyr Thr
 115 120 125
 Pro Ser Lys Ile Ser Val Arg Val Gly Asn Asn Phe His Asn Leu Gln
 130 135 140
 Glu Ile Arg Gln Leu Glu Leu Val Glu Pro Ser Gly Trp Ile His Val
 145 150 155 160
 Pro Leu Thr Asp Asn His Lys Lys Pro Thr Arg Thr Phe Met Ile Gln
 165 170 175
 Ile Ala Val Leu Ala Asn His Gln Asn Gly Arg Asp Thr His Met Arg
 180 185 190
 Gln Ile Lys Ile Tyr Thr Pro Val Glu Glu Ser Ser Ile Gly Lys Phe
 195 200 205
 Pro Arg Cys Thr Thr Ile Asp Phe Met Met Tyr Arg Ser Ile Arg
 210 215 220 223

<210> 2304

<211> 316

<212> PRT

<213> Homo sapiens

<400> 2304

Pro Pro Leu Pro Pro Arg Ser Phe Pro Asn Leu Phe Ser Arg Pro Glu
 1 5 10 15
 Pro Leu Pro Glu Pro Gly Arg Arg Gly Cys Asn Arg Ser Arg Glu Pro
 20 25 30
 Ala Ala Arg Ala Pro Ser Pro Pro Pro Phe Glu Gly Ala Pro Gly
 35 40 45
 Arg Ala Met Val Lys Val Thr Phe Asn Ser Ala Leu Ala Gln Lys Glu
 50 55 60
 Ala Lys Lys Asp Glu Pro Lys Ser Gly Glu Glu Ala Leu Ile Ile Pro
 65 70 75 80
 Pro Asp Ala Val Ala Val Asp Cys Lys Asp Pro Asp Asp Val Val Pro
 85 90 95
 Val Gly Gln Arg Arg Ala Trp Cys Trp Cys Met Cys Phe Gly Leu Ala
 100 105 110
 Phe Met Leu Ala Gly Val Ile Leu Gly Gly Ala Tyr Leu Tyr Lys Tyr
 115 120 125
 Phe Ala Leu Gln Pro Asp Asp Val Tyr Tyr Cys Gly Ile Lys Tyr Ile
 130 135 140
 Lys Asp Asp Val Ile Leu Asn Glu Pro Ser Ala Asp Ala Pro Ala Ala
 145 150 155 160
 Leu Tyr Gln Thr Ile Glu Glu Asn Ile Lys Ile Phe Glu Glu Glu Glu
 165 170 175
 Val Glu Phe Ile Ser Val Pro Val Pro Glu Phe Ala Asp Ser Asp Pro
 180 185 190
 Ala Asn Ile Val His Asp Phe Asn Lys Lys Leu Thr Ala Tyr Leu Asp
 195 200 205
 Leu Asn Leu Asp Lys Cys Tyr Val Ile Pro Leu Asn Thr Ser Ile Val
 210 215 220
 Met Pro Pro Arg Asn Leu Leu Glu Leu Leu Ile Asn Ile Lys Ala Gly
 225 230 235 240

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Thr Tyr Leu Pro Gln Ser Tyr Leu Ile His Glu His Met Val Ile Thr
                245                250                255
Asp Arg Ile Glu Asn Ile Asp His Leu Gly Phe Phe Ile Tyr Arg Leu
                260                265                270
Cys His Asp Lys Glu Thr Tyr Lys Leu Gln Arg Arg Glu Thr Ile Lys
                275                280                285
Gly Ile Gln Lys Arg Glu Ala Ser Asn Cys Phe Ala Ile Arg His Phe
                290                295                300
Glu Asn Lys Phe Ala Val Glu Thr Leu Ile Cys Ser
305                310                315 316

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<210> 2305
<211> 378
<212> PRT
<213> Homo sapiens

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<400> 2305
Val Glu Ser Arg Ser Ala Trp His Glu Gly Glu Asp Gln Ile Asp Arg
1          5          10          15
Leu Asp Phe Ile Arg Asn Gln Met Asn Leu Leu Thr Leu Asp Val Lys
          20          25          30
Lys Lys Ile Lys Glu Val Thr Glu Glu Val Ala Asn Lys Val Ser Cys
          35          40          45
Ala Met Thr Asp Glu Ile Cys Arg Leu Ser Val Leu Val Asp Glu Phe
          50          55          60
Cys Ser Glu Phe His Pro Asn Pro Asp Val Leu Lys Ile Tyr Lys Ser
65          70          75          80
Glu Leu Asn Lys His Ile Glu Asp Gly Met Gly Arg Asn Leu Ala Asp
          85          90          95
Arg Cys Thr Asp Glu Val Asn Ala Leu Val Leu Gln Thr Gln Gln Glu
100          105          110
Ile Ile Glu Asn Leu Lys Pro Leu Leu Pro Ala Gly Ile Gln Asp Lys
115          120          125
Leu His Thr Leu Ile Pro Cys Lys Lys Phe Asp Leu Ser Tyr Asn Leu
130          135          140
Asn Tyr His Lys Leu Cys Ser Asp Phe Gln Glu Asp Ile Val Phe Arg
145          150          155          160
Phe Ser Leu Gly Trp Ser Ser Leu Val His Arg Phe Leu Gly Pro Arg
          165          170          175
Asn Ala Gln Arg Val Leu Leu Gly Leu Ser Glu Pro Ile Phe Gln Leu
          180          185          190
Pro Arg Ser Leu Ala Ser Thr Pro Thr Ala Pro Thr Thr Pro Ala Thr
195          200          205
Pro Asp Asn Ala Ser Gln Glu Glu Leu Met Ile Thr Leu Val Thr Gly
210          215          220
Leu Ala Ser Val Thr Ser Arg Thr Ser Met Gly Ile Ile Val Gly
225          230          235          240
Gly Val Ile Trp Lys Thr Ile Gly Trp Lys Leu Leu Ser Val Ser Leu
          245          250          255
Thr Met Tyr Gly Ala Leu Tyr Leu Tyr Glu Arg Leu Ser Trp Thr Thr
260          265          270
His Ala Lys Glu Arg Ala Phe Lys Gln Gln Phe Val Asn Tyr Ala Thr
275          280          285
Glu Lys Leu Arg Met Ile Val Ser Ser Thr Ser Ala Asn Cys Ser His
290          295          300
Gln Val Lys Gln Gln Ile Ala Thr Thr Phe Ala Arg Leu Cys Gln Gln
305          310          315          320
Val Asp Ile Thr Gln Lys Gln Leu Glu Glu Glu Ile Ala Arg Leu Pro
          325          330          335
Lys Glu Ile Asp Gln Leu Glu Lys Ile Gln Asn Asn Ser Lys Leu Leu
          340          345          350

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Arg Asn Lys Ala Val Gln Leu Glu Asn Glu Leu Glu Asn Phe Thr Lys
 355 360 365
 Gln Phe Leu Pro Ser Ser Asn Glu Glu Ser
 370 375 378

<210> 2306
 <211> 351
 <212> PRT
 <213> Homo sapiens

<400> 2306
 Ala Ser Gly Ser Pro Ala Pro Ser Ser Ser Ser Ala Met Ala Ala Ala
 1 5 10 15
 Cys Gly Pro Gly Ala Ala Gly Tyr Cys Leu Leu Leu Gly Leu His Leu
 20 25 30
 Phe Leu Leu Thr Ala Gly Pro Ala Leu Gly Trp Asn Asp Pro Asp Arg
 35 40 45
 Met Leu Leu Arg Asp Val Lys Ala Leu Thr Leu His Tyr Asp Arg Tyr
 50 55 60
 Thr Thr Ser Arg Arg Leu Asp Pro Ile Pro Gln Leu Lys Cys Val Gly
 65 70 75 80
 Gly Thr Ala Gly Cys Asp Ser Tyr Thr Pro Lys Val Ile Gln Cys Gln
 85 90 95
 Asn Lys Gly Trp Asp Gly Tyr Asp Val Gln Trp Glu Cys Lys Thr Asp
 100 105 110
 Leu Asp Ile Ala Tyr Lys Phe Gly Lys Thr Val Val Ser Cys Glu Gly
 115 120 125
 Tyr Glu Ser Ser Glu Asp Gln Tyr Val Leu Arg Gly Ser Cys Gly Leu
 130 135 140
 Glu Tyr Asn Leu Asp Tyr Thr Glu Leu Gly Leu Gln Lys Leu Lys Glu
 145 150 155 160
 Ser Gly Lys Gln His Gly Phe Ala Ser Phe Ser Asp Tyr Tyr Tyr Lys
 165 170 175
 Trp Ser Ser Ala Asp Ser Cys Asn Met Ser Gly Leu Ile Thr Ile Val
 180 185 190
 Val Leu Leu Gly Ile Ala Phe Val Val Tyr Lys Leu Phe Leu Ser Asp
 195 200 205
 Gly Gln Tyr Ser Pro Pro Pro Tyr Ser Glu Tyr Pro Pro Phe Ser His
 210 215 220
 Arg Tyr Gln Arg Phe Thr Asn Ser Ala Gly Pro Pro Pro Pro Gly Phe
 225 230 235 240
 Lys Ser Glu Phe Thr Gly Pro Gln Asn Thr Gly His Gly Ala Thr Ser
 245 250 255
 Gly Phe Gly Ser Ala Phe Thr Gly Gln Gln Gly Tyr Glu Asn Ser Gly
 260 265 270
 Pro Gly Phe Trp Thr Gly Leu Gly Thr Gly Gly Ile Leu Gly Tyr Leu
 275 280 285
 Phe Gly Ser Asn Arg Ala Ala Thr Pro Phe Ser Asp Ser Trp Tyr Tyr
 290 295 300
 Pro Ser Tyr Pro Pro Ser Tyr Pro Gly Thr Trp Asn Arg Ala Tyr Ser
 305 310 315 320
 Pro Leu His Gly Gly Ser Gly Ser Tyr Ser Val Cys Ser Asn Ser Asp
 325 330 335
 Thr Lys Thr Arg Thr Ala Ser Gly Tyr Gly Gly Thr Arg Arg Arg
 340 345 350 351

<210> 2307
 <211> 321
 <212> PRT

<213> Homo sapiens

<400> 2307

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Thr His Val Val Met Thr Gly Met Cys Tyr Ala Pro His Gln Val Leu
 1          5          10          15
Ser Tyr Ile Asn Gly Val Thr Thr Ser Lys Pro Gly Val Ser Leu Val
          20          25          30
Tyr Ser Met Pro Ser Arg Asn Leu Ser Leu Arg Leu Glu Gly Leu Gln
          35          40          45
Glu Lys Asp Ser Gly Pro Tyr Ser Cys Ser Val Asn Val Gln Asp Lys
          50          55          60
Gln Gly Lys Ser Arg Gly His Ser Ile Lys Thr Leu Glu Leu Asn Val
          65          70          75          80
Leu Val Pro Pro Ala Pro Pro Ser Cys Arg Leu Gln Gly Val Pro His
          85          90          95
Val Gly Ala Asn Val Thr Leu Ser Cys Gln Ser Pro Arg Ser Lys Pro
          100          105          110
Ala Val Gln Tyr Gln Trp Asp Arg Gln Leu Pro Ser Phe Gln Thr Phe
          115          120          125
Phe Ala Pro Ala Leu Asp Val Ile Arg Gly Ser Leu Ser Leu Thr Asn
          130          135          140
Leu Ser Ser Ser Met Ala Gly Val Tyr Val Cys Lys Ala His Asn Glu
145          150          155          160
Val Gly Thr Ala Gln Cys Asn Val Thr Leu Glu Val Ser Thr Gly Pro
          165          170          175
Gly Ala Ala Val Val Ala Gly Ala Val Val Gly Thr Leu Val Gly Leu
          180          185          190
Gly Leu Leu Ala Gly Leu Val Leu Leu Tyr His Arg Arg Gly Lys Ala
          195          200          205
Leu Glu Glu Pro Ala Asn Asp Ile Lys Glu Asp Ala Ile Ala Pro Arg
          210          215          220
Thr Leu Pro Trp Pro Lys Ser Ser Asp Thr Ile Ser Lys Asn Gly Thr
225          230          235          240
Leu Ser Ser Val Thr Ser Ala Arg Ala Leu Arg Pro Pro His Gly Pro
          245          250          255
Pro Arg Pro Gly Ala Leu Thr Pro Thr Pro Ser Leu Ser Ser Gln Ala
          260          265          270
Leu Pro Ser Pro Arg Leu Pro Thr Thr Asp Gly Ala His Pro Gln Pro
          275          280          285
Ile Ser Pro Ile Pro Gly Gly Val Ser Ser Ser Gly Leu Ser Arg Met
          290          295          300
Gly Ala Val Pro Val Met Val Pro Ala Gln Ser Gln Ala Gly Ser Leu
305          310          315          320
Val
321

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<210> 2308

<211> 383

<212> PRT

<213> Homo sapiens

<400> 2308

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Glu Leu Ala Arg Arg Pro Lys Gln Gln Ser Ser Glu Lys Ser Arg Asn
 1          5          10          15
Met Ile Arg Asn Trp Leu Thr Ile Phe Ile Leu Phe Pro Leu Lys Leu
          20          25          30
Val Glu Lys Cys Glu Ser Ser Val Ser Leu Thr Val Pro Pro Val Val
          35          40          45
Lys Leu Glu Asn Gly Ser Ser Thr Asn Val Ser Leu Thr Leu Arg Pro
          50          55          60

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Pro Leu Asn Ala Thr Leu Val Ile Thr Phe Glu Ile Thr Phe Arg Ser
65          70          75          80
Lys Asn Ile Thr Ile Leu Glu Leu Pro Asp Glu Val Val Val Pro Pro
85          90          95
Gly Val Thr Asn Ser Ser Phe Gln Val Thr Ser Gln Asn Val Gly Gln
100        105        110
Leu Thr Val Tyr Leu His Gly Asn His Ser Asn Gln Thr Gly Pro Arg
115        120        125
Ile Arg Phe Leu Val Ile Arg Ser Ser Ala Ile Ser Ile Ile Asn Gln
130        135        140
Val Ile Gly Trp Ile Tyr Phe Val Ala Trp Ser Ile Ser Phe Tyr Pro
145        150        155        160
Gln Val Ile Met Asn Trp Arg Arg Lys Ser Val Ile Gly Leu Ser Phe
165        170        175
Asp Phe Val Ala Leu Asn Leu Thr Gly Phe Val Ala Tyr Ser Val Phe
180        185        190
Asn Ile Gly Leu Leu Trp Val Pro Tyr Ile Lys Glu Gln Phe Leu Leu
195        200        205
Lys Tyr Pro Asn Gly Val Asn Pro Val Asn Ser Asn Asp Val Phe Phe
210        215        220
Ser Leu His Ala Val Val Leu Thr Leu Ile Ile Ile Val Gln Cys Cys
225        230        235        240
Leu Tyr Glu Arg Gly Gly Gln Arg Val Ser Trp Pro Ala Ile Gly Phe
245        250        255
Leu Val Leu Ala Trp Leu Phe Ala Phe Val Thr Met Ile Val Ala Ala
260        265        270
Val Gly Val Ile Thr Trp Leu Gln Phe Leu Phe Cys Phe Ser Tyr Ile
275        280        285
Lys Leu Ala Val Thr Leu Val Lys Tyr Phe Pro Gln Ala Tyr Met Asn
290        295        300
Phe Tyr Tyr Lys Ser Thr Glu Gly Trp Ser Ile Gly Asn Val Leu Leu
305        310        315        320
Asp Phe Thr Gly Gly Ser Phe Ser Leu Leu Gln Met Phe Leu Gln Ser
325        330        335
Tyr Asn Asn Asp Gln Trp Thr Leu Ile Phe Gly Asp Pro Thr Lys Phe
340        345        350
Gly Leu Gly Val Phe Ser Ile Val Phe Asp Val Val Phe Phe Ile Gln
355        360        365
His Phe Cys Leu Tyr Arg Lys Arg Pro Gly Tyr Asp Gln Leu Asn
370        375        380        383

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<210> 2309

<211> 274

<212> PRT

<213> Homo sapiens

<400> 2309

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Gly Glu Arg Ala Gly Arg Arg Arg Gly Arg Leu Gly Val Trp Ala Gln
1          5          10          15
Pro Gln Pro Leu Leu Pro Arg Pro Val Gly Ser Arg Arg Glu Met Gln
20        25        30
Pro Pro Gly Pro Pro Pro Ala Tyr Ala Pro Thr Asn Gly Asp Phe Thr
35        40        45
Phe Val Ser Ser Ala Asp Ala Glu Asp Leu Ser Gly Ser Ile Ala Ser
50        55        60
Pro Asp Val Lys Leu Asn Leu Gly Gly Asp Phe Ile Lys Glu Ser Thr
65        70        75        80
Ala Thr Thr Phe Leu Arg Gln Arg Gly Tyr Gly Trp Leu Leu Glu Val
85        90        95
Glu Asp Asp Asp Pro Glu Asp Asn Lys Pro Leu Leu Glu Glu Leu Asp
100       105       110

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Ile Asp Leu Lys Asp Ile Tyr Tyr Lys Ile Arg Cys Val Leu Met Pro
    115                120                125
Met Pro Ser Leu Gly Phe Asn Arg Gln Val Val Arg Asp Asn Pro Asp
    130                135                140
Phe Trp Gly Pro Leu Ala Val Val Leu Phe Phe Ser Met Ile Ser Leu
145    150                155                160
Tyr Gly Gln Phe Arg Val Val Ser Trp Ile Ile Thr Ile Trp Ile Phe
    165                170                175
Gly Ser Leu Thr Ile Phe Leu Leu Ala Arg Val Leu Gly Gly Glu Val
    180                185                190
Ala Tyr Gly Gln Val Leu Gly Val Ile Gly Tyr Ser Leu Leu Pro Leu
    195                200                205
Ile Val Ile Ala Pro Val Leu Leu Val Val Gly Ser Phe Glu Val Val
    210                215                220
Ser Thr Leu Ile Lys Leu Phe Gly Val Phe Trp Ala Ala Tyr Ser Ala
225    230                235                240
Ala Ser Leu Leu Val Gly Glu Glu Phe Lys Thr Lys Lys Pro Leu Leu
    245                250                255
Ile Tyr Pro Ile Phe Leu Leu Tyr Ile Tyr Phe Leu Ser Leu Tyr Thr
    260                265                270
Gly Val
    274

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<210> 2310
<211> 973
<212> PRT
<213> Homo sapiens

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<400> 2310
Met Thr Cys Phe Lys Gly Gln Lys Gly Glu Gln Arg Ser His Ala Phe
 1      5      10      15
Glu Ala Asn Lys Asp His Lys Ala Lys Val Pro Ser Pro Asn Leu Tyr
    20      25      30
Ser Gln Leu Asn Ala Leu Gln Phe Thr Val Asp Glu Arg Ser Ile Leu
    35      40      45
Trp Leu Asn Gln Phe Leu Leu Asp Leu Lys Gln Ser Leu Asn Gln Phe
    50      55      60
Met Ala Val Tyr Lys Leu Asn Asp Asn Ser Lys Ser Asp Glu His Val
    65      70      75      80
Asp Val Arg Val Asp Gly Leu Met Leu Lys Phe Val Ile Pro Ser Glu
    85      90      95
Val Lys Ser Glu Cys His Gln Asp Gln Pro Arg Ala Ile Ser Ile Gln
    100     105     110
Ser Ser Glu Met Ile Ala Thr Asn Thr Arg His Cys Pro Asn Cys Arg
    115     120     125
His Ser Asp Leu Glu Ala Leu Phe Gln Asp Phe Lys Asp Cys Asp Phe
    130     135     140
Phe Ser Lys Thr Tyr Thr Ser Phe Pro Lys Ser Cys Asp Asn Phe Asn
145     150     155     160
Leu Leu His Pro Ile Phe Gln Arg His Ala His Glu Gln Asp Thr Lys
    165     170     175
Met His Glu Ile Tyr Lys Gly Asn Ile Thr Pro Gln Leu Asn Lys Asn
    180     185     190
Thr Leu Lys Thr Ser Ala Ala Thr Asp Val Trp Ala Val Tyr Phe Ser
    195     200     205
Gln Phe Trp Ile Asp Tyr Glu Gly Met Lys Ser Gly Lys Gly Arg Pro
    210     215     220
Ile Ser Phe Val Asp Ser Phe Pro Leu Ser Ile Trp Ile Cys Gln Pro
225     230     235     240
Thr Arg Tyr Ala Glu Ser Gln Lys Glu Pro Gln Thr Cys Asn Gln Val
    245     250     255

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Ser Leu Asn Thr Ser Gln Ser Glu Ser Ser Asp Leu Ala Gly Arg Leu
 260 265 270
 Lys Arg Lys Lys Leu Leu Lys Glu Tyr Tyr Ser Thr Glu Ser Glu Pro
 275 280 285
 Leu Thr Asn Gly Gly Gln Lys Pro Ser Ser Ser Asp Thr Phe Phe Arg
 290 295 300
 Phe Ser Pro Ser Ser Ser Glu Ala Asp Ile His Leu Leu Val His Val
 305 310 315 320
 His Lys His Val Ser Met Gln Ile Asn His Tyr Gln Tyr Leu Leu Leu
 325 330 335
 Leu Phe Leu His Glu Ser Leu Ile Leu Leu Ser Glu Asn Leu Arg Lys
 340 345 350
 Asp Val Glu Ala Val Thr Gly Ser Pro Ala Ser Gln Thr Ser Ile Cys
 355 360 365
 Ile Gly Ile Leu Leu Arg Ser Ala Glu Leu Ala Leu Leu Leu His Pro
 370 375 380
 Val Asp Gln Ala Asn Thr Leu Lys Ser Pro Val Ser Glu Ser Val Ser
 385 390 395 400
 Pro Val Val Pro Asp Tyr Leu Pro Thr Glu Asn Gly Asp Phe Leu Ser
 405 410 415
 Ser Lys Arg Lys Gln Ile Ser Arg Asp Ile Asn Arg Ile Arg Ser Val
 420 425 430
 Thr Val Asn His Met Ser Asp Asn Arg Ser Met Ser Val Asp Leu Ser
 435 440 445
 His Ile Pro Leu Lys Asp Pro Leu Leu Phe Lys Ser Ala Ser Asp Thr
 450 455 460
 Asn Leu Gln Lys Gly Ile Ser Phe Met Asp Tyr Leu Ser Asp Lys His
 465 470 475 480
 Leu Gly Lys Ile Ser Glu Asp Glu Ser Ser Gly Leu Val Tyr Lys Ser
 485 490 495
 Gly Ser Gly Glu Ile Gly Ser Glu Thr Ser Asp Lys Lys Asp Ser Phe
 500 505 510
 Tyr Thr Asp Ser Ser Ser Val Leu Asn Tyr Arg Glu Asp Ser Asn Ile
 515 520 525
 Leu Ser Phe Asp Ser Asp Gly Asn Gln Asn Ile Leu Ser Ser Thr Leu
 530 535 540
 Thr Ser Lys Gly Asn Glu Thr Ile Glu Ser Ile Phe Lys Ala Glu Asp
 545 550 555 560
 Leu Leu Pro Glu Ala Ala Ser Leu Ser Glu Asn Leu Asp Ile Ser Lys
 565 570 575
 Glu Glu Thr Pro Pro Val Arg Thr Leu Lys Ser Gln Ser Ser Leu Ser
 580 585 590
 Gly Lys Pro Lys Glu Arg Cys Pro Pro Asn Leu Ala Pro Leu Cys Val
 595 600 605
 Ser Tyr Lys Asn Met Lys Arg Ser Ser Ser Gln Met Ser Leu Asp Thr
 610 615 620
 Ile Ser Leu Asp Ser Met Ile Leu Glu Glu Gln Leu Leu Glu Ser Asp
 625 630 635 640
 Gly Ser Asp Ser His Met Phe Leu Glu Lys Gly Asn Lys Lys Asn Ser
 645 650 655
 Thr Thr Asn Tyr Arg Gly Thr Ala Glu Ser Val Asn Ala Gly Ala Asn
 660 665 670
 Leu Gln Asn Tyr Gly Glu Thr Ser Pro Asp Ala Ile Ser Thr Asn Ser
 675 680 685
 Glu Gly Ala Gln Glu Asn His Asp Asp Leu Met Ser Val Val Val Phe
 690 695 700
 Lys Ile Thr Gly Val Asn Gly Glu Ile Asp Ile Arg Gly Glu Asp Thr
 705 710 715 720
 Glu Ile Cys Leu Gln Val Asn Gln Val Thr Pro Asp Gln Leu Gly Asn
 725 730 735
 Ile Ser Leu Arg His Tyr Leu Cys Asn Arg Pro Val Gly Ser Asp Gln
 740 745 750
 Lys Ala Val Ile His Ser Lys Ser Ser Pro Glu Ile Ser Leu Arg Phe
 755 760 765

Glu Ser Gly Pro Gly Ala Val Ile His Ser Leu Leu Ala Glu Lys Asn
 770 775 780
 Gly Phe Leu Gln Cys His Ile Glu Asn Phe Ser Thr Glu Phe Leu Thr
 785 790 795 800
 Ser Ser Leu Met Asn Ile Gln His Phe Leu Glu Asp Glu Thr Val Ala
 805 810 815
 Thr Val Met Pro Met Lys Ile Gln Val Ser Asn Thr Lys Ile Asn Leu
 820 825 830
 Lys Asp Asp Ser Pro Arg Ser Ser Thr Val Ser Leu Glu Pro Ala Pro
 835 840 845
 Val Thr Val His Ile Asp His Leu Val Val Glu Arg Ser Asp Asp Gly
 850 855 860
 Ser Phe His Ile Arg Asp Ser His Met Leu Asn Thr Gly Asn Asp Leu
 865 870 875 880
 Lys Glu Asn Val Lys Ser Asp Ser Val Leu Leu Thr Ser Gly Lys Tyr
 885 890 895
 Asp Leu Lys Lys Gln Arg Ser Val Thr Gln Ala Thr Gln Thr Ser Pro
 900 905 910
 Gly Val Pro Trp Pro Ser Gln Ser Ala Asn Phe Pro Glu Phe Ser Phe
 915 920 925
 Asp Phe Thr Arg Glu Gln Leu Met Glu Glu Asn Glu Ser Leu Lys Gln
 930 935 940
 Glu Leu Ala Lys Ala Lys Met Ala Leu Ala Glu Ala His Leu Glu Lys
 945 950 955 960
 Asp Ala Leu Leu His His Ile Lys Lys Met Thr Val Glu
 965 970 973

<210> 2311
 <211> 253
 <212> PRT
 <213> Homo sapiens

<400> 2311
 Thr Ala Ala Met Ser Ile Phe Thr Pro Thr Asn Gln Ile Arg Leu Thr
 1 5 10 15
 Asn Val Ala Val Val Arg Met Lys Arg Ala Gly Lys Arg Phe Glu Ile
 20 25 30
 Ala Cys Tyr Lys Asn Lys Val Val Gly Trp Arg Ser Gly Val Glu Lys
 35 40 45
 Asp Leu Asp Glu Val Leu Gln Thr His Ser Val Phe Val Asn Val Ser
 50 55 60
 Lys Gly Gln Val Ala Lys Lys Glu Asp Leu Ile Ser Ala Phe Gly Thr
 65 70 75 80
 Asp Asp Gln Thr Glu Ile Cys Lys Gln Ile Leu Thr Lys Gly Glu Val
 85 90 95
 Gln Val Ser Asp Lys Glu Arg His Thr Gln Leu Glu Gln Met Phe Arg
 100 105 110
 Asp Ile Ala Thr Ile Val Ala Asp Lys Cys Val Asn Pro Glu Thr Lys
 115 120 125
 Arg Pro Tyr Thr Val Ile Leu Ile Glu Arg Ala Met Lys Asp Ile His
 130 135 140
 Tyr Ser Val Lys Thr Asn Lys Ser Thr Lys Gln Gln Ala Leu Glu Val
 145 150 155 160
 Ile Lys Gln Leu Lys Glu Lys Met Lys Ile Glu Arg Ala His Met Arg
 165 170 175
 Leu Arg Phe Ile Leu Pro Val Asn Glu Gly Lys Lys Leu Lys Glu Lys
 180 185 190
 Leu Lys Pro Leu Ile Lys Val Ile Glu Ser Glu Asp Tyr Gly Gln Gln
 195 200 205
 Leu Glu Ile Val Cys Leu Ile Asp Pro Gly Cys Phe Arg Glu Ile Asp
 210 215 220

Glu Leu Ile Lys Lys Glu Thr Lys Gly Lys Gly Ser Leu Glu Val Leu
 225 230 235 240
 Asn Leu Lys Asp Val Glu Glu Gly Asp Glu Lys Phe Glu
 245 250 253

<210> 2312
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 2312
 Asn Ile Ser Asn Lys Ala Glu Val Ser Ser His Pro Ser Val Ile Ser
 1 5 10 15
 His Ser Met Asp Ser Phe Gly Gln Pro Arg Pro Glu Asp Asn Gln Ser
 20 25 30
 Val Leu Arg Arg Met Gln Lys Lys Tyr Trp Lys Thr Lys Gln Val Phe
 35 40 45
 Ile Lys Ala Thr Gly Lys Lys Glu Asp Glu His Leu Val Ala Ser Asp
 50 55 60
 Ala Glu Leu Asp Ala Lys Leu Glu Val Phe His Ser Val Gln Glu Thr
 65 70 75 80
 Cys Thr Glu Leu Leu Lys Ile Ile Glu Lys Tyr Gln Leu Arg Leu Asn
 85 90 95
 Gly Met Lys Ser
 100

<210> 2313
 <211> 734
 <212> PRT
 <213> Homo sapiens

<400> 2313
 Ala Glu Gly Cys Ala Glu Arg Arg Gly Thr Glu Pro Val Val Glu Leu
 1 5 10 15
 Ser Met Ser Trp Glu Ser Gly Ala Gly Pro Gly Leu Gly Ser Gln Gly
 20 25 30
 Met Asp Leu Val Trp Ser Ala Trp Tyr Gly Lys Cys Val Lys Gly Lys
 35 40 45
 Gly Ser Leu Pro Leu Ser Ala His Gly Ile Val Val Ala Trp Leu Ser
 50 55 60
 Arg Ala Glu Trp Asp Gln Val Thr Val Tyr Leu Phe Cys Asp Asp His
 65 70 75 80
 Lys Leu Gln Arg Tyr Ala Leu Asn Arg Ile Thr Val Trp Arg Ser Arg
 85 90 95
 Ser Gly Asn Glu Leu Pro Leu Ala Val Ala Ser Thr Ala Asp Leu Ile
 100 105 110
 Arg Cys Lys Leu Leu Asp Val Thr Gly Gly Leu Gly Thr Asp Glu Leu
 115 120 125
 Arg Leu Leu Tyr Gly Met Ala Leu Val Arg Phe Val Asn Leu Ile Ser
 130 135 140
 Glu Arg Lys Thr Lys Phe Ala Lys Val Pro Leu Lys Cys Leu Ala Gln
 145 150 155 160
 Glu Val Asn Ile Pro Asp Trp Ile Val Asp Leu Arg His Glu Leu Thr
 165 170 175
 His Lys Lys Met Pro His Ile Asn Asp Cys Arg Arg Gly Cys Tyr Phe
 180 185 190
 Val Leu Asp Trp Leu Gln Lys Thr Tyr Trp Cys Arg Gln Leu Glu Asn
 195 200 205

Ser Leu Arg Glu Thr Trp Glu Leu Glu Glu Phe Arg Glu Gly Ile Glu
 210 215 220
 Glu Glu Asp Gln Glu Glu Asp Lys Asn Ile Val Val Asp Asp Ile Thr
 225 230 235 240
 Glu Gln Lys Pro Glu Pro Gln Asp Asp Gly Lys Ser Thr Glu Ser Asp
 245 250 255
 Val Lys Ala Asp Gly Asp Ser Lys Gly Ser Glu Glu Val Asp Ser His
 260 265 270
 Cys Lys Lys Ala Leu Ser His Lys Glu Leu Tyr Glu Arg Ala Arg Glu
 275 280 285
 Leu Leu Val Ser Tyr Glu Glu Gln Phe Thr Val Leu Glu Lys Phe
 290 295 300
 Arg Tyr Leu Pro Lys Ala Ile Lys Ala Trp Asn Asn Pro Ser Pro Arg
 305 310 315 320
 Val Glu Cys Val Leu Ala Glu Leu Lys Gly Val Thr Cys Glu Asn Arg
 325 330 335
 Glu Ala Val Leu Asp Ala Phe Leu Asp Asp Gly Phe Leu Val Pro Thr
 340 345 350
 Phe Glu Gln Leu Ala Ala Leu Gln Ile Glu Tyr Glu Glu Asn Val Asp
 355 360 365
 Leu Asn Asp Val Leu Val Pro Lys Pro Phe Ser Gln Phe Trp Gln Pro
 370 375 380
 Leu Leu Arg Gly Leu His Ser Gln Asn Phe Thr Gln Ala Leu Leu Glu
 385 390 395 400
 Arg Met Leu Ser Glu Leu Pro Ala Leu Gly Ile Ser Gly Ile Arg Pro
 405 410 415
 Thr Tyr Ile Leu Arg Trp Thr Val Glu Leu Ile Val Ala Asn Thr Lys
 420 425 430
 Thr Gly Arg Asn Ala Arg Arg Phe Ser Ala Gly Gln Trp Glu Ala Arg
 435 440 445
 Arg Gly Trp Arg Leu Phe Asn Cys Ser Ala Ser Leu Asp Trp Pro Arg
 450 455 460
 Met Val Glu Ser Cys Leu Gly Ser Pro Cys Trp Ala Ser Pro Gln Leu
 465 470 475 480
 Leu Arg Ile Ile Phe Lys Ala Met Gly Gln Gly Leu Pro Asp Glu Glu
 485 490 495
 Gln Glu Lys Leu Leu Arg Ile Cys Ser Ile Tyr Thr Gln Ser Gly Glu
 500 505 510
 Asn Ser Leu Val Gln Glu Gly Ser Glu Ala Ser Pro Ile Gly Lys Ser
 515 520 525
 Pro Tyr Thr Leu Asp Ser Leu Tyr Trp Ser Val Lys Pro Ala Ser Ser
 530 535 540
 Ser Phe Gly Ser Glu Ala Lys Ala Gln Gln Gln Glu Glu Gln Gly Ser
 545 550 555 560
 Val Asn Asp Val Lys Glu Glu Glu Lys Glu Glu Lys Glu Val Leu Pro
 565 570 575
 Asp Gln Val Glu Glu Glu Glu Glu Asn Asp Asp Gln Glu Glu Glu Glu
 580 585 590
 Glu Asp Glu Asp Asp Glu Asp Asp Glu Glu Glu Asp Arg Met Glu Val
 595 600 605
 Gly Pro Phe Ser Thr Gly Gln Glu Ser Pro Thr Ala Glu Asn Ala Arg
 610 615 620
 Leu Leu Ala Gln Lys Arg Gly Ala Leu Gln Gly Ser Ala Trp Gln Val
 625 630 635 640
 Ser Ser Glu Asp Val Arg Trp Asp Thr Phe Pro Leu Gly Arg Met Pro
 645 650 655
 Gly Gln Thr Glu Asp Pro Ala Glu Leu Met Leu Glu Asn Tyr Asp Thr
 660 665 670
 Met Tyr Leu Leu Asp Gln Pro Val Leu Glu Gln Arg Leu Glu Pro Ser
 675 680 685
 Thr Cys Lys Thr Asp Thr Leu Gly Leu Ser Cys Gly Val Gly Ser Gly
 690 695 700
 Asn Cys Ser Asn Ser Ser Ser Ser Asn Phe Glu Gly Leu Leu Trp Ser
 705 710 715 720

Gln Gly Gln Leu His Gly Leu Lys Thr Gly Leu Gln Leu Phe
 725 730 734

<210> 2314
 <211> 462
 <212> PRT
 <213> Homo sapiens

<400> 2314
 Glu Pro Arg Arg Asn Phe Arg Asp Asp Ser Thr Arg Pro Arg Thr Arg
 1 5 10 15
 Gly Arg Thr Arg Gly Arg Arg Arg Arg Ala Cys Arg Ser Ala Glu Gly
 20 25 30
 Thr Gly Leu Arg Ser Leu Leu Leu Pro Pro Arg Leu Gln Leu Pro Ala
 35 40 45
 Gly Pro Phe Ser Arg Cys Arg Trp Asp Pro Val Ser Ser Pro Arg Pro
 50 55 60
 Ser Thr Met Pro Pro Lys Lys Gly Gly Asp Gly Ile Lys Pro Pro Pro
 65 70 75 80
 Ile Ile Gly Arg Phe Gly Thr Ser Leu Lys Ile Gly Ile Val Gly Leu
 85 90 95
 Pro Asn Val Gly Lys Ser Thr Phe Phe Asn Val Leu Thr Asn Ser Gln
 100 105 110
 Ala Ser Ala Glu Asn Phe Pro Phe Cys Thr Ile Asp Pro Asn Glu Ser
 115 120 125
 Arg Val Pro Val Pro Asp Glu Arg Phe Asp Phe Leu Cys Gln Tyr His
 130 135 140
 Lys Pro Ala Ser Lys Ile Pro Ala Phe Leu Asn Val Val Asp Ile Ala
 145 150 155 160
 Gly Leu Val Lys Gly Ala His Asn Gly Gln Gly Leu Gly Asn Ala Phe
 165 170 175
 Leu Ser His Ile Ser Ala Cys Asp Gly Ile Phe His Leu Thr Arg Ala
 180 185 190
 Phe Glu Asp Asp Asp Ile Thr His Val Glu Gly Ser Val Asp Pro Ile
 195 200 205
 Arg Asp Ile Glu Ile Ile His Glu Glu Leu Gln Leu Lys Asp Glu Glu
 210 215 220
 Met Ile Gly Pro Ile Ile Asp Lys Leu Glu Lys Val Ala Val Arg Gly
 225 230 235 240
 Gly Asp Lys Lys Leu Lys Pro Glu Tyr Asp Ile Met Cys Lys Val Lys
 245 250 255
 Ser Trp Val Ile Asp Gln Lys Lys Pro Val Arg Phe Tyr His Asp Trp
 260 265 270
 Asn Asp Lys Glu Ile Glu Val Leu Asn Lys His Leu Phe Leu Thr Ser
 275 280 285
 Lys Pro Met Val Tyr Leu Val Asn Leu Ser Glu Lys Asp Tyr Ile Arg
 290 295 300
 Lys Lys Asn Lys Trp Leu Ile Lys Ile Lys Glu Trp Val Asp Lys Tyr
 305 310 315 320
 Asp Pro Gly Ala Leu Val Ile Pro Phe Ser Gly Ala Leu Glu Leu Lys
 325 330 335
 Leu Gln Glu Leu Ser Ala Glu Glu Arg Gln Lys Tyr Leu Glu Ala Asn
 340 345 350
 Met Thr Gln Ser Ala Leu Pro Lys Ile Ile Lys Ala Gly Phe Ala Ala
 355 360 365
 Leu Gln Leu Glu Tyr Phe Phe Thr Ala Gly Pro Asp Glu Val Arg Ala
 370 375 380
 Trp Thr Ile Arg Lys Gly Thr Lys Ala Pro Gln Ala Ala Gly Lys Ile
 385 390 395 400
 His Thr Asp Phe Glu Lys Gly Phe Ile Met Ala Glu Val Met Lys Tyr
 405 410 415

Glu Asp Phe Lys Glu Glu Gly Ser Glu Asn Ala Val Lys Ala Ala Gly
 420 425 430
 Lys Tyr Arg Gln Gln Gly Arg Asn Tyr Ile Val Glu Asp Gly Asp Ile
 435 440 445
 Ile Phe Phe Lys Phe Asn Thr Pro Gln Gln Pro Lys Lys Lys
 450 455 460 462

<210> 2315
 <211> 280
 <212> PRT
 <213> Homo sapiens

<400> 2315
 Arg Ser Phe Ser Leu Ser Phe Ser Leu Leu Ser Pro Ser Glu Met Met
 1 5 10 15
 Ala Leu Gly Ala Ala Gly Ala Thr Arg Val Phe Val Ala Met Val Ala
 20 25 30
 Ala Ala Leu Gly Gly His Pro Leu Leu Gly Val Ser Ala Thr Leu Asn
 35 40 45
 Ser Val Leu Asn Ser Asn Ala Ile Lys Asn Leu Pro Pro Pro Leu Gly
 50 55 60
 Gly Ala Ala Gly His Pro Gly Ser Ala Val Ser Ala Ala Pro Gly Ile
 65 70 75 80
 Leu Tyr Pro Gly Gly Asn Lys Tyr Gln Thr Ile Asp Asn Tyr Gln Pro
 85 90 95
 Tyr Pro Cys Ala Glu Asp Glu Glu Cys Gly Thr Asp Glu Tyr Cys Ala
 100 105 110
 Ser Pro Thr Arg Gly Gly Asp Ala Gly Val Gln Ile Cys Leu Ala Cys
 115 120 125
 Arg Lys Arg Arg Lys Arg Cys Met Arg His Ala Met Cys Cys Pro Gly
 130 135 140
 Asn Tyr Cys Lys Asn Gly Ile Cys Val Ser Ser Asp Gln Asn His Phe
 145 150 155 160
 Arg Gly Glu Ile Glu Glu Thr Ile Thr Glu Ser Phe Gly Asn Asp His
 165 170 175
 Ser Thr Leu Asp Gly Tyr Ser Arg Arg Thr Thr Leu Ser Ser Lys Met
 180 185 190
 Tyr His Thr Lys Gly Gln Glu Gly Ser Val Cys Leu Arg Ser Ser Asp
 195 200 205
 Cys Ala Ser Gly Leu Cys Cys Ala Arg His Phe Trp Ser Lys Ile Cys
 210 215 220
 Lys Pro Val Leu Lys Glu Gly Gln Val Cys Thr Lys His Arg Arg Lys
 225 230 235 240
 Gly Ser His Gly Leu Glu Ile Phe Gln Arg Cys Tyr Cys Gly Glu Gly
 245 250 255
 Leu Ser Cys Arg Ile Gln Lys Asp His His Gln Ala Ser Asn Ser Ser
 260 265 270
 Arg Leu His Thr Cys Gln Arg His
 275 280

<210> 2316
 <211> 1222
 <212> PRT
 <213> Homo sapiens

<400> 2316
 Lys Phe Lys Leu Ile Lys Ile Met Leu Leu Thr Leu Ile Ile Leu Leu
 1 5 10 15

Pro Val Val Ser Lys Phe Ser Phe Val Ser Leu Ser Ala Pro Gln His
 20 25 30
 Trp Ser Cys Pro Glu Gly Thr Leu Ala Gly Asn Gly Asn Ser Thr Cys
 35 40 45
 Val Gly Pro Ala Pro Phe Leu Ile Phe Ser His Gly Asn Ser Ile Phe
 50 55 60
 Arg Ile Asp Thr Glu Gly Thr Asn Tyr Glu Gln Leu Val Val Asp Ala
 65 70 75 80
 Gly Val Ser Val Ile Met Asp Phe His Tyr Asn Glu Lys Arg Ile Tyr
 85 90 95
 Trp Val Asp Leu Glu Arg Gln Leu Leu Gln Arg Val Phe Leu Asn Gly
 100 105 110
 Ser Arg Gln Glu Arg Val Cys Asn Ile Glu Lys Asn Val Ser Gly Met
 115 120 125
 Ala Ile Asn Trp Ile Asn Glu Glu Val Ile Trp Ser Asn Gln Gln Glu
 130 135 140
 Gly Ile Ile Thr Val Thr Asp Met Lys Gly Asn Asn Ser His Ile Leu
 145 150 155 160
 Leu Ser Ala Leu Lys Tyr Pro Ala Asn Val Ala Val Asp Pro Val Glu
 165 170 175
 Arg Phe Ile Phe Trp Ser Ser Glu Val Ala Gly Ser Leu Tyr Arg Ala
 180 185 190
 Asp Leu Asp Gly Val Gly Val Lys Ala Leu Leu Glu Thr Ser Glu Lys
 195 200 205
 Ile Thr Ala Val Ser Leu Asp Val Leu Asp Lys Arg Leu Phe Trp Ile
 210 215 220
 Gln Tyr Asn Arg Glu Gly Ser Asn Ser Leu Ile Cys Ser Cys Asp Tyr
 225 230 235 240
 Asp Gly Gly Ser Val His Ile Ser Lys His Pro Thr Gln His Asn Leu
 245 250 255
 Phe Ala Met Ser Leu Phe Gly Asp Arg Ile Phe Tyr Ser Thr Trp Lys
 260 265 270
 Met Lys Thr Ile Trp Ile Ala Asn Lys His Thr Gly Lys Asp Met Val
 275 280 285
 Arg Ile Asn Leu His Ser Ser Phe Val Pro Leu Gly Glu Leu Lys Val
 290 295 300
 Val His Pro Leu Ala Gln Pro Lys Ala Glu Asp Thr Trp Glu Pro
 305 310 315 320
 Glu Gln Lys Leu Cys Lys Leu Arg Lys Gly Asn Cys Ser Ser Thr Val
 325 330 335
 Cys Gly Gln Asp Leu Gln Ser His Leu Cys Met Cys Ala Glu Gly Tyr
 340 345 350
 Ala Leu Ser Arg Asp Arg Lys Tyr Cys Glu Gly Asn Asp Trp Lys Tyr
 355 360 365
 Cys Glu Asp Val Asn Glu Cys Ala Phe Trp Asn His Gly Cys Thr Leu
 370 375 380
 Gly Cys Lys Asn Thr Pro Gly Ser Tyr Tyr Cys Thr Cys Pro Val Gly
 385 390 395 400
 Phe Val Leu Leu Pro Asp Gly Lys Arg Cys His Gln Leu Val Ser Cys
 405 410 415
 Pro Arg Asn Val Ser Glu Cys Ser His Asp Cys Val Leu Thr Ser Glu
 420 425 430
 Gly Pro Leu Cys Phe Cys Pro Glu Gly Ser Val Leu Glu Arg Asp Gly
 435 440 445
 Lys Thr Cys Ser Gly Cys Ser Ser Pro Asp Asn Gly Gly Cys Ser Gln
 450 455 460
 Leu Cys Val Pro Leu Ser Pro Val Ser Trp Glu Cys Asp Cys Phe Pro
 465 470 475 480
 Gly Tyr Asp Leu Gln Leu Asp Glu Lys Ser Cys Ala Ala Ser Gly Pro
 485 490 495
 Gln Pro Phe Leu Leu Phe Ala Asn Ser Gln Asp Ile Arg His Met His
 500 505 510
 Phe Asp Gly Thr Asp Tyr Gly Thr Leu Leu Ser Gln Gln Met Gly Met
 515 520 525

Val Tyr Ala Leu Asp His Asp Pro Val Glu Asn Lys Ile Tyr Phe Ala
 530 535 540
 His Thr Ala Leu Lys Trp Ile Glu Arg Ala Asn Met Asp Gly Ser Gln
 545 550 555 560
 Arg Glu Arg Leu Ile Glu Glu Gly Val Asp Val Pro Glu Gly Leu Ala
 565 570 575
 Val Asp Trp Ile Gly Arg Arg Phe Tyr Trp Thr Asp Arg Gly Lys Ser
 580 585 590
 Leu Ile Gly Arg Ser Asp Leu Asn Gly Lys Arg Ser Lys Ile Ile Thr
 595 600 605
 Ile Glu Asn Ile Ser Gln Pro Arg Gly Ile Ala Val His Pro Met Ala
 610 615 620
 Lys Arg Leu Phe Trp Thr Asp Thr Gly Ile Asn Pro Arg Ile Glu Ser
 625 630 635 640
 Ser Ser Leu Gln Gly Leu Gly Arg Leu Val Ile Ala Ser Ser Asp Leu
 645 650 655
 Ile Trp Pro Ser Gly Ile Thr Ile Asp Phe Leu Thr Asp Lys Leu Tyr
 660 665 670
 Trp Cys Asp Ala Lys Gln Ser Val Ile Glu Met Ala Asn Leu Asp Gly
 675 680 685
 Ser Lys Arg Arg Arg Leu Thr Gln Asn Asp Val Gly His Pro Phe Ala
 690 695 700
 Val Ala Val Phe Glu Asp Tyr Val Trp Phe Ser Asp Trp Ala Met Pro
 705 710 715 720
 Ser Val Ile Arg Val Asn Lys Arg Thr Gly Lys Asp Arg Val Arg Leu
 725 730 735
 Gln Gly Ser Met Leu Lys Pro Ser Ser Leu Val Val Val His Pro Leu
 740 745 750
 Ala Lys Pro Gly Ala Asp Pro Cys Leu Tyr Gln Asn Gly Gly Cys Glu
 755 760 765
 His Ile Cys Lys Lys Arg Leu Gly Thr Ala Trp Cys Ser Cys Arg Glu
 770 775 780
 Gly Phe Met Lys Ala Ser Asp Gly Lys Thr Cys Leu Ala Leu Asp Gly
 785 790 795 800
 His Gln Leu Leu Ala Gly Gly Glu Val Asp Leu Lys Asn Gln Val Thr
 805 810 815
 Pro Leu Asp Ile Leu Ser Lys Thr Arg Val Ser Glu Asp Asn Ile Thr
 820 825 830
 Glu Ser Gln His Met Leu Val Ala Glu Ile Met Val Ser Asp Gln Asp
 835 840 845
 Asp Cys Ala Pro Val Gly Cys Ser Met Tyr Ala Arg Cys Ile Ser Glu
 850 855 860
 Gly Glu Asp Ala Thr Cys Gln Cys Leu Lys Gly Phe Ala Gly Asp Gly
 865 870 875 880
 Lys Leu Cys Ser Asp Ile Asp Glu Cys Glu Met Gly Val Pro Val Cys
 885 890 895
 Pro Pro Ala Ser Ser Lys Cys Ile Asn Thr Glu Gly Gly Tyr Val Cys
 900 905 910
 Arg Cys Ser Glu Gly Tyr Gln Gly Asp Gly Ile His Cys Leu Asp Ile
 915 920 925
 Asp Glu Cys Gln Leu Gly Val His Ser Cys Gly Glu Asn Ala Ser Cys
 930 935 940
 Thr Asn Thr Glu Gly Gly Tyr Thr Cys Met Cys Ala Gly Arg Leu Ser
 945 950 955 960
 Glu Pro Gly Leu Ile Cys Pro Asp Ser Thr Pro Pro Pro His Leu Arg
 965 970 975
 Glu Asp Asp His His Tyr Ser Val Arg Asn Ser Asp Ser Glu Cys Pro
 980 985 990
 Leu Ser His Asp Gly Tyr Cys Leu His Asp Gly Val Cys Met Tyr Ile
 995 1000 1005
 Glu Ala Leu Asp Lys Tyr Ala Cys Asn Cys Val Val Gly Tyr Ile Gly
 1010 1015 1020
 Glu Arg Cys Gln Tyr Arg Asp Leu Lys Trp Trp Glu Leu Arg His Ala
 1025 1030 1035 1040

Gly His Gly Gln Gln Gln Lys Val Ile Val Val Ala Val Cys Val Val
 1045 1050 1055
 Val Leu Val Met Leu Leu Leu Ser Leu Trp Gly Ala His Tyr Tyr
 1060 1065 1070
 Arg Thr Gln Lys Leu Leu Ser Lys Asn Pro Lys Asn Pro Tyr Glu Glu
 1075 1080 1085
 Ser Ser Arg Asp Val Arg Ser Arg Arg Pro Ala Asp Thr Glu Asp Gly
 1090 1095 1100
 Met Ser Ser Cys Pro Gln Pro Trp Phe Val Val Ile Lys Glu His Gln
 1105 1110 1115 1120
 Asp Leu Lys Asn Gly Gly Gln Pro Val Ala Gly Glu Asp Gly Gln Ala
 1125 1130 1135
 Ala Asp Gly Ser Met Gln Pro Thr Ser Trp Arg Gln Glu Pro Gln Leu
 1140 1145 1150
 Cys Gly Met Gly Thr Glu Gln Gly Cys Trp Ile Pro Val Ser Ser Asp
 1155 1160 1165
 Lys Gly Ser Cys Pro Gln Val Met Glu Arg Ser Phe His Met Pro Ser
 1170 1175 1180
 Tyr Gly Thr Gln Thr Leu Glu Gly Gly Val Glu Lys Pro His Ser Leu
 1185 1190 1195 1200
 Leu Ser Ala Asn Pro Leu Trp Gln Gln Arg Ala Leu Asp Pro Pro His
 1205 1210 1215
 Gln Met Glu Leu Thr Gln
 1220 1222

<210> 2317

<211> 199

<212> PRT

<213> Homo sapiens

<400> 2317

Ser Ser Ala Met Gly Ser Arg Ser Ser His Ala Ala Val Ile Pro Asp
 1 5 10 15
 Gly Asp Ser Ile Arg Arg Glu Thr Gly Phe Ser Gln Ala Ser Leu Leu
 20 25 30
 Arg Leu His His Arg Phe Arg Ala Leu Asp Arg Asn Lys Lys Gly Tyr
 35 40 45
 Leu Ser Arg Met Asp Leu Gln Gln Ile Gly Ala Leu Ala Val Asn Pro
 50 55 60
 Leu Gly Asp Arg Ile Ile Glu Ser Phe Phe Pro Asp Gly Ser Gln Arg
 65 70 75 80
 Val Asp Phe Pro Gly Phe Val Arg Val Leu Ala His Phe Arg Pro Val
 85 90 95
 Glu Asp Glu Asp Thr Glu Thr Gln Asp Pro Lys Lys Pro Glu Pro Leu
 100 105 110
 Asn Ser Arg Arg Asn Lys Leu His Tyr Ala Phe Gln Leu Tyr Asp Leu
 115 120 125
 Asp Arg Asp Gly Lys Ile Ser Arg His Glu Met Leu Gln Val Leu Arg
 130 135 140
 Leu Met Val Gly Val Gln Val Thr Glu Glu Gln Leu Glu Asn Ile Ala
 145 150 155 160
 Asp Arg Thr Val Gln Glu Ala Asp Glu Asp Gly Asp Gly Ala Val Ser
 165 170 175
 Phe Val Glu Phe Thr Lys Ser Leu Glu Lys Met Asp Val Glu His Lys
 180 185 190
 Met Ser Ile Arg Ile Leu Lys
 195 199

<210> 2318

<211> 135
 <212> PRT
 <213> Homo sapiens

<400> 2318
 Ile Ser Ser Cys Pro His Thr Ala Tyr Glu Gly Ser Met Ser Thr Leu
 1 5 10 15
 Ser Asn Phe Thr Gln Thr Leu Glu Asp Val Phe Arg Arg Ile Phe Ile
 20 25 30
 Thr Tyr Met Asp Asn Trp Arg Gln Asn Thr Thr Ala Glu Gln Glu Ala
 35 40 45
 Leu Gln Ala Lys Val Asp Ala Glu Asn Phe Tyr Tyr Val Ile Leu Tyr
 50 55 60
 Leu Met Val Met Ile Gly Met Phe Ser Phe Ile Ile Val Ala Ile Leu
 65 70 75 80
 Val Ser Thr Val Lys Ser Lys Arg Arg Glu His Ser Asn Asp Pro Tyr
 85 90 95
 His Gln Tyr Ile Val Glu Asp Trp Gln Glu Lys Tyr Lys Ser Gln Ile
 100 105 110
 Leu Asn Leu Glu Glu Ser Lys Ala Thr Ile His Glu Asn Ile Gly Ala
 115 120 125
 Ala Gly Phe Lys Met Ser Pro
 130 135

<210> 2319
 <211> 646
 <212> PRT
 <213> Homo sapiens

<400> 2319
 Gly Met Pro Arg Ser Arg Gly Gly Arg Ala Ala Pro Gly Pro Pro Pro
 1 5 10 15
 Pro Pro Pro Pro Pro Gly Gln Ala Pro Arg Trp Ser Arg Trp Arg Val
 20 25 30
 Pro Gly Arg Leu Leu Leu Leu Leu Leu Pro Ala Leu Cys Cys Leu Pro
 35 40 45
 Gly Ala Ala Arg Ala Ala Ala Ala Ala Ala Gly Ala Gly Asn Arg Ala
 50 55 60
 Ala Val Ala Val Ala Val Ala Arg Ala Asp Glu Ala Glu Ala Pro Phe
 65 70 75 80
 Ala Gly Gln Asn Trp Leu Lys Ser Tyr Gly Tyr Leu Leu Pro Tyr Asp
 85 90 95
 Ser Arg Ala Ser Ala Leu His Ser Ala Lys Ala Leu Gln Ser Ala Val
 100 105 110
 Ser Thr Met Gln Gln Phe Tyr Gly Ile Pro Val Thr Gly Val Leu Asp
 115 120 125
 Gln Thr Thr Ile Glu Trp Met Lys Lys Pro Arg Cys Gly Val Pro Asp
 130 135 140
 His Pro His Leu Ser Arg Arg Arg Arg Asn Lys Arg Tyr Ala Leu Thr
 145 150 155 160
 Gly Gln Lys Trp Arg Gln Lys His Ile Thr Tyr Ser Ile His Asn Tyr
 165 170 175
 Thr Pro Lys Val Gly Glu Leu Asp Thr Arg Lys Ala Ile Arg Gln Ala
 180 185 190
 Phe Asp Val Trp Gln Lys Val Thr Pro Leu Thr Phe Glu Glu Val Pro
 195 200 205
 Tyr His Glu Ile Lys Ser Asp Arg Lys Glu Ala Asp Ile Met Ile Phe
 210 215 220
 Phe Ala Ser Gly Phe His Gly Asp Ser Ser Pro Phe Asp Gly Glu Gly
 225 230 235 240

Gly Phe Leu Ala His Ala Tyr Phe Pro Gly Pro Gly Ile Gly Gly Asp
 245 250 255
 Thr His Phe Asp Ser Asp Glu Pro Trp Thr Leu Gly Asn Ala Asn His
 260 265 270
 Asp Gly Asn Asp Leu Phe Leu Val Ala Val His Glu Leu Gly His Ala
 275 280 285
 Leu Gly Leu Glu His Ser Ser Asp Pro Ser Ala Ile Met Ala Pro Phe
 290 295 300
 Tyr Gln Tyr Met Glu Thr His Asn Phe Lys Leu Pro Gln Asp Asp Leu
 305 310 315 320
 Gln Gly Ile Gln Lys Ile Tyr Gly Pro Pro Ala Glu Pro Leu Glu Pro
 325 330 335
 Thr Arg Pro Leu Pro Thr Leu Pro Val Arg Arg Ile His Ser Pro Ser
 340 345 350
 Glu Arg Lys His Glu Arg Gln Pro Arg Pro Pro Arg Pro Pro Leu Gly
 355 360 365
 Asp Arg Pro Ser Thr Pro Gly Thr Lys Pro Asn Ile Cys Asp Gly Asn
 370 375 380
 Phe Asn Thr Val Ala Leu Phe Arg Gly Glu Met Phe Val Phe Lys Asp
 385 390 395 400
 Arg Trp Phe Trp Arg Leu Arg Asn Asn Arg Val Gln Glu Gly Tyr Pro
 405 410 415
 Met Gln Ile Glu Gln Phe Trp Lys Gly Leu Pro Ala Arg Ile Asp Ala
 420 425 430
 Ala Tyr Glu Arg Ala Asp Gly Arg Phe Val Phe Phe Lys Gly Asp Lys
 435 440 445
 Tyr Trp Val Phe Lys Glu Val Thr Val Glu Pro Gly Tyr Pro His Ser
 450 455 460
 Leu Gly Glu Leu Gly Ser Cys Leu Pro Arg Glu Gly Ile Asp Thr Ala
 465 470 475 480
 Leu Arg Trp Glu Pro Val Gly Lys Thr Tyr Phe Phe Lys Gly Glu Arg
 485 490 495
 Tyr Trp Arg Tyr Ser Glu Glu Arg Arg Ala Thr Asp Pro Gly Tyr Pro
 500 505 510
 Lys Pro Ile Thr Val Trp Lys Gly Ile Pro Gln Ala Pro Gln Gly Ala
 515 520 525
 Phe Ile Ser Lys Glu Gly Tyr Tyr Thr Tyr Phe Tyr Lys Gly Arg Asp
 530 535 540
 Tyr Trp Lys Phe Asp Asn Gln Lys Leu Ser Val Glu Pro Gly Tyr Pro
 545 550 555 560
 Arg Asn Ile Leu Arg Asp Trp Met Gly Cys Asn Gln Lys Glu Val Glu
 565 570 575
 Arg Arg Lys Glu Arg Arg Leu Pro Gln Asp Asp Val Asp Ile Met Val
 580 585 590
 Thr Ile Asn Asp Val Pro Gly Ser Val Asn Ala Val Ala Val Val Ile
 595 600 605
 Pro Cys Ile Leu Ser Leu Cys Ile Leu Val Leu Val Tyr Thr Ile Phe
 610 615 620
 Gln Phe Lys Asn Lys Thr Gly Pro Gln Pro Val Thr Tyr Tyr Lys Arg
 625 630 635 640
 Pro Val Gln Glu Trp Val
 645 646

<210> 2320

<211> 329

<212> PRT

<213> Homo sapiens

<400> 2320

Ser Arg Leu Ser Leu Gln Phe Tyr Val Ser Phe Arg Arg Thr Gly Leu
 1 5 10 15

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Phe Thr Cys Lys Leu Ile Val Glu Ile Phe Phe Arg Asn Tyr Met Asn
      20      25      30
Asp Ser Leu Arg Thr Asn Val Phe Val Arg Phe Gln Pro Glu Thr Ile
      35      40      45
Ala Cys Ala Cys Ile Tyr Leu Ala Ala Arg Ala Leu Gln Ile Pro Leu
      50      55      60
Pro Thr Arg Pro His Trp Phe Leu Leu Phe Gly Thr Thr Glu Glu Glu
      65      70      75      80
Ile Gln Glu Ile Cys Ile Glu Thr Leu Arg Leu Tyr Thr Arg Lys Lys
      85      90      95
Pro Asn Tyr Glu Leu Leu Glu Lys Glu Val Glu Lys Arg Lys Val Ala
      100      105      110
Leu Gln Glu Ala Lys Leu Lys Ala Lys Gly Leu Asn Pro Asp Gly Thr
      115      120      125
Pro Ala Leu Ser Thr Leu Gly Gly Phe Ser Pro Ala Ser Lys Pro Ser
      130      135      140
Ser Pro Arg Glu Val Lys Ala Glu Glu Lys Ser Pro Ile Ser Ile Asn
      145      150      155      160
Val Lys Thr Val Lys Lys Glu Pro Glu Asp Arg Gln Gln Ala Ser Lys
      165      170      175
Ser Pro Tyr Asn Gly Val Arg Lys Asp Ser Lys Arg Ser Arg Asn Ser
      180      185      190
Arg Ser Ala Ser Arg Ser Arg Ser Arg Thr Arg Ser Arg Ser Arg Ser
      195      200      205
His Thr Pro Arg Arg His Tyr Asn Asn Arg Arg Ser Arg Ser Gly Thr
      210      215      220
Tyr Ser Ser Arg Ser Arg Ser Arg Ser Arg Ser His Ser Glu Ser Pro
      225      230      235      240
Arg Arg His His Asn His Gly Ser Pro His Leu Lys Ala Lys His Thr
      245      250      255
Arg Asp Asp Leu Lys Ser Ser Asn Arg His Gly His Lys Arg Lys Lys
      260      265      270
Ser Arg Ser Arg Ser Gln Ser Lys Ser Arg Asp His Ser Asp Ala Ala
      275      280      285
Lys Lys His Arg His Glu Arg Gly His His Arg Asp Arg Arg Glu Arg
      290      295      300
Ser Arg Ser Phe Glu Arg Ser His Lys Ser Lys His His Gly Gly Ser
      305      310      315      320
Arg Ser Gly His Gly Arg His Arg Arg
      325      329

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<210> 2321
<211> 1090
<212> PRT
<213> Homo sapiens

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<400> 2321
Asp Cys Arg Leu Gln Ala Ala Met Pro Thr Asn Phe Thr Val Val Pro
  1      5      10      15
Val Glu Ala His Ala Asp Gly Gly Gly Asp Glu Thr Ala Glu Arg Thr
      20      25      30
Glu Ala Pro Gly Thr Pro Glu Gly Pro Glu Pro Glu Arg Pro Ser Pro
      35      40      45
Gly Asp Gly Asn Pro Arg Glu Asn Ser Pro Phe Leu Asn Asn Val Glu
      50      55      60
Val Glu Gln Glu Ser Phe Glu Gly Lys Asn Met Ala Leu Phe Glu
      65      70      75      80
Glu Glu Met Asp Ser Asn Pro Met Val Ser Ser Leu Leu Asn Lys Leu
      85      90      95
Ala Asn Tyr Thr Asn Leu Ser Gln Gly Val Val Glu His Glu Glu Asp
      100      105      110

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Glu	Glu	Ser	Arg	Arg	Arg	Glu	Ala	Lys	Ala	Pro	Arg	Met	Gly	Thr	Phe
		115					120					125			
Ile	Gly	Val	Tyr	Leu	Pro	Cys	Leu	Gln	Asn	Ile	Leu	Gly	Val	Ile	Leu
		130				135					140				
Phe	Leu	Arg	Leu	Thr	Trp	Ile	Val	Gly	Val	Ala	Gly	Val	Leu	Glu	Ser
145					150					155					160
Phe	Leu	Ile	Val	Ala	Met	Cys	Cys	Thr	Cys	Thr	Met	Leu	Thr	Ala	Ile
				165					170					175	
Ser	Met	Ser	Ala	Ile	Ala	Thr	Asn	Gly	Val	Val	Pro	Ala	Gly	Gly	Ser
			180				185						190		
Tyr	Tyr	Met	Ile	Ser	Arg	Ser	Leu	Gly	Pro	Glu	Phe	Gly	Gly	Ala	Val
		195					200					205			
Gly	Leu	Cys	Phe	Tyr	Leu	Gly	Thr	Thr	Phe	Ala	Gly	Ala	Met	Tyr	Ile
		210				215					220				
Leu	Gly	Thr	Ile	Glu	Ile	Phe	Leu	Thr	Tyr	Ile	Ser	Pro	Gly	Ala	Ala
225					230					235					240
Ile	Phe	Gln	Ala	Glu	Ala	Ala	Gly	Gly	Glu	Ala	Ala	Ala	Met	Leu	His
				245					250					255	
Asn	Met	Arg	Val	Tyr	Gly	Thr	Cys	Thr	Leu	Val	Leu	Met	Ala	Leu	Val
			260				265						270		
Val	Phe	Val	Gly	Val	Lys	Tyr	Val	Asn	Lys	Leu	Ala	Leu	Val	Phe	Leu
		275					280					285			
Ala	Cys	Val	Val	Leu	Ser	Ile	Leu	Ala	Ile	Tyr	Ala	Gly	Val	Ile	Lys
		290				295					300				
Ser	Ala	Phe	Asp	Pro	Pro	Asp	Ile	Pro	Val	Cys	Leu	Leu	Gly	Asn	Arg
305					310					315					320
Thr	Leu	Ser	Arg	Arg	Ser	Phe	Asp	Ala	Cys	Val	Lys	Ala	Tyr	Gly	Ile
				325					330					335	
His	Asn	Asn	Ser	Ala	Thr	Ser	Ala	Leu	Trp	Gly	Leu	Phe	Cys	Asn	Gly
			340				345					350			
Ser	Gln	Pro	Ser	Ala	Ala	Cys	Asp	Glu	Tyr	Phe	Ile	Gln	Asn	Asn	Val
		355					360					365			
Thr	Glu	Ile	Gln	Gly	Ile	Pro	Gly	Ala	Ala	Ser	Gly	Val	Phe	Leu	Glu
		370				375					380				
Asn	Leu	Trp	Ser	Thr	Tyr	Ala	His	Ala	Gly	Ala	Phe	Val	Glu	Lys	Lys
385					390					395					400
Gly	Val	Pro	Ser	Val	Pro	Val	Ala	Glu	Glu	Ser	Arg	Ala	Ser	Thr	Leu
				405					410					415	
Pro	Tyr	Val	Leu	Thr	Asp	Ile	Ala	Ala	Ser	Phe	Thr	Leu	Leu	Val	Gly
		420					425					430			
Ile	Tyr	Phe	Pro	Ser	Val	Thr	Gly	Ile	Met	Ala	Gly	Ser	Asn	Arg	Ser
		435					440					445			
Gly	Asp	Leu	Lys	Asp	Ala	Gln	Lys	Ser	Ile	Pro	Thr	Gly	Thr	Ile	Leu
		450				455					460				
Ala	Ile	Val													

Leu Ser Phe Leu Gly Met Ser Leu Cys Leu Ala Leu Met Phe Ile Cys
 625 630 635 640
 Ser Trp Tyr Tyr Ala Leu Ser Ala Met Leu Ile Ala Gly Cys Ile Tyr
 645 650 655
 Lys Tyr Ile Glu Tyr Arg Gly Ala Glu Lys Glu Trp Gly Asp Gly Ile
 660 665 670
 Arg Gly Leu Ser Leu Asn Ala Ala Arg Tyr Ala Leu Leu Arg Val Glu
 675 680 685
 His Gly Pro Pro His Thr Lys Asn Trp Arg Pro Gln Val Leu Val Met
 690 695 700
 Leu Asn Leu Asp Ala Glu Gln Ala Met Lys His Pro Arg Leu Leu Ser
 705 710 715 720
 Phe Thr Ser Gln Leu Lys Ala Gly Lys Gly Leu Thr Ile Val Gly Ser
 725 730 735
 Val Leu Glu Gly Thr Tyr Leu Asp Lys His Met Glu Ala Gln Arg Ala
 740 745 750
 Glu Glu Asn Ile Arg Ser Leu Met Ser Thr Glu Lys Thr Lys Gly Phe
 755 760 765
 Cys Gln Leu Val Val Ser Ser Ser Leu Arg Asp Gly Met Ser His Leu
 770 775 780
 Ile Gln Ser Ala Gly Leu Gly Gly Leu Lys His Asn Thr Val Leu Met
 785 790 795 800
 Ala Trp Pro Ala Ser Trp Lys Gln Glu Asp Asn Pro Phe Ser Trp Lys
 805 810 815
 Asn Phe Val Asp Thr Val Arg Asp Thr Thr Ala Ala His Gln Ala Leu
 820 825 830
 Leu Val Ala Lys Asn Val Asp Ser Phe Pro Gln Asn Gln Glu Arg Phe
 835 840 845
 Gly Gly Gly His Ile Asp Val Trp Trp Ile Val His Asp Gly Gly Met
 850 855 860
 Leu Met Leu Leu Pro Phe Leu Leu Arg Gln His Lys Val Trp Arg Lys
 865 870 875 880
 Cys Arg Met Arg Ile Phe Thr Val Ala Gln Val Asp Asp Asn Ser Ile
 885 890 895
 Gln Met Lys Lys Asp Leu Gln Met Phe Leu Tyr His Leu Arg Ile Ser
 900 905 910
 Ala Glu Val Glu Val Val Glu Met Val Glu Asn Asp Ile Ser Ala Phe
 915 920 925
 Thr Tyr Glu Arg Thr Leu Met Met Glu Gln Arg Ser Gln Met Leu Lys
 930 935 940
 Gln Met Gln Leu Ser Lys Asn Glu Gln Glu Arg Glu Ala Gln Leu Ile
 945 950 955 960
 His Asp Arg Asn Thr Ala Ser His Thr Ala Ala Ala Ala Arg Thr Gln
 965 970 975
 Ala Pro Pro Thr Pro Asp Lys Val Gln Met Thr Trp Thr Arg Glu Lys
 980 985 990
 Leu Ile Ala Glu Lys Tyr Arg Ser Arg Asp Thr Ser Leu Ser Gly Phe
 995 1000 1005
 Lys Asp Leu Phe Ser Met Lys Pro Asp Gln Ser Asn Val Arg Arg Met
 1010 1015 1020
 His Thr Ala Val Lys Leu Asn Gly Val Val Leu Asn Lys Ser Gln Asp
 1025 1030 1035 1040
 Ala Gln Leu Val Leu Leu Asn Met Pro Gly Pro Pro Lys Asn Arg Gln
 1045 1050 1055
 Gly Asp Glu Asn Tyr Met Glu Phe Leu Glu Val Leu Thr Glu Gly Leu
 1060 1065 1070
 Asn Arg Val Leu Leu Val Arg Gly Gly Gly Arg Glu Val Ile Thr Ile
 1075 1080 1085
 Tyr Ser
 1090

<210> 2322

<211> 151
 <212> PRT
 <213> Homo sapiens

<400> 2322
 Thr Ser Arg Arg Val Thr Met Lys Phe Asn Pro Phe Val Thr Ser Asp
 1 5 10 15
 Arg Ser Lys Asn Arg Lys Arg His Phe Asn Ala Pro Ser His Val Arg
 20 25 30
 Arg Lys Ile Met Ser Ser Pro Leu Ser Lys Glu Leu Arg Gln Lys Tyr
 35 40 45
 Asn Val Arg Ser Met Pro Ile Arg Lys Asp Asp Glu Val Gln Val Val
 50 55 60
 Arg Gly His Tyr Lys Gly Gln Gln Ile Gly Lys Val Val Gln Val Tyr
 65 70 75 80
 Arg Lys Lys Tyr Val Ile Tyr Ile Glu Arg Val Gln Arg Glu Lys Ala
 85 90 95
 Asn Gly Thr Thr Val His Val Gly Ile His Pro Ser Lys Val Val Ile
 100 105 110
 Thr Arg Leu Lys Leu Asp Lys Asp Arg Lys Lys Ile Leu Glu Arg Lys
 115 120 125
 Ala Lys Ser Arg Gln Val Gly Lys Glu Lys Gly Lys Tyr Lys Glu Glu
 130 135 140
 Leu Ile Glu Lys Met Gln Glu
 145 150 151

<210> 2323
 <211> 1245
 <212> PRT
 <213> Homo sapiens

<400> 2323
 Gly Cys Pro His Ala Gly Gly Lys Gly Arg Val Pro Thr Gly Gly Leu
 1 5 10 15
 Thr Gly Gly Arg Thr Trp Ser Pro Ser Ala Ala Pro Arg Ser Cys Pro
 20 25 30
 Arg Pro Gly Pro Thr Pro Ala Pro Gly Ala Met Asp Lys Leu Pro Pro
 35 40 45
 Ser Met Arg Lys Arg Leu Tyr Ser Leu Pro Gln Gln Val Gly Ala Lys
 50 55 60
 Ala Trp Ile Met Asp Glu Glu Glu Asp Ala Glu Glu Glu Gly Ala Gly
 65 70 75 80
 Gly Arg Gln Asp Pro Ser Arg Arg Ser Ile Arg Leu Arg Pro Leu Pro
 85 90 95
 Ser Pro Ser Pro Ser Ala Ala Ala Gly Gly Thr Glu Ser Arg Ser Ser
 100 105 110
 Ala Leu Gly Ala Ala Asp Ser Glu Gly Pro Ala Arg Gly Ala Gly Lys
 115 120 125
 Ser Ser Thr Asn Gly Asp Cys Arg Arg Phe Arg Gly Ser Leu Ala Ser
 130 135 140
 Leu Gly Ser Arg Gly Gly Gly Ser Gly Gly Thr Gly Ser Gly Ser Ser
 145 150 155 160
 His Gly His Leu His Asp Ser Ala Glu Glu Arg Arg Leu Ile Ala Glu
 165 170 175
 Gly Asp Ala Ser Pro Gly Glu Asp Arg Thr Pro Pro Gly Leu Ala Ala
 180 185 190
 Glu Pro Glu Arg Pro Gly Ala Ser Ala Gln Pro Ala Ala Ser Pro Pro
 195 200 205
 Pro Pro Gln Gln Pro Pro Gln Pro Ala Ser Ala Ser Cys Glu Gln Pro
 210 215 220

Ser Val Asp Thr Ala Ile Lys Val Glu Gly Gly Ala Ala Ala Gly Asp
 225 230 235 240
 Gln Ile Leu Pro Glu Ala Glu Val Arg Leu Gly Gln Ala Gly Phe Met
 245 250 255
 Gln Arg Gln Phe Gly Ala Met Leu Gln Pro Gly Val Asn Lys Phe Ser
 260 265 270
 Leu Arg Met Phe Gly Ser Gln Lys Ala Val Glu Arg Glu Gln Glu Arg
 275 280 285
 Val Lys Ser Ala Gly Phe Trp Ile Ile His Pro Tyr Ser Asp Phe Arg
 290 295 300
 Phe Tyr Trp Asp Leu Thr Met Leu Leu Leu Met Val Gly Asn Leu Ile
 305 310 315 320
 Ile Ile Pro Val Gly Ile Thr Phe Phe Lys Asp Glu Asn Thr Thr Pro
 325 330 335
 Trp Ile Val Phe Asn Val Val Ser Asp Thr Phe Phe Leu Ile Asp Leu
 340 345 350
 Val Leu Asn Phe Arg Thr Gly Ile Val Val Glu Asp Asn Thr Glu Ile
 355 360 365
 Ile Leu Asp Pro Gln Arg Ile Lys Met Lys Tyr Leu Lys Ser Trp Phe
 370 375 380
 Met Val Asp Phe Ile Ser Ser Ile Pro Val Asp Tyr Ile Phe Leu Ile
 385 390 395 400
 Val Glu Thr Arg Ile Asp Ser Glu Val Tyr Lys Thr Ala Arg Ala Leu
 405 410 415
 Arg Ile Val Arg Phe Thr Lys Ile Leu Ser Leu Leu Arg Leu Leu Arg
 420 425 430
 Leu Ser Arg Leu Ile Arg Tyr Ile His Gln Trp Glu Glu Ile Phe His
 435 440 445
 Met Thr Tyr Asp Leu Ala Ser Ala Val Val Arg Ile Val Asn Leu Ile
 450 455 460
 Gly Met Met Leu Leu Leu Cys His Trp Asp Gly Cys Leu Gln Phe Leu
 465 470 475 480
 Val Pro Met Leu Gln Asp Phe Pro Asp Asp Cys Trp Val Ser Ile Asn
 485 490 495
 Asn Met Val Asn Asn Ser Trp Gly Lys Gln Tyr Ser Tyr Ala Leu Phe
 500 505 510
 Lys Ala Met Ser His Met Leu Cys Ile Gly Tyr Gly Arg Gln Ala Pro
 515 520 525
 Val Gly Met Ser Asp Val Trp Leu Thr Met Leu Ser Met Ile Val Gly
 530 535 540
 Ala Thr Cys Tyr Ala Met Phe Ile Gly His Ala Thr Ala Leu Ile Gln
 545 550 555 560
 Ser Leu Asp Ser Ser Arg Arg Gln Tyr Gln Glu Lys Tyr Lys Gln Val
 565 570 575
 Glu Gln Tyr Met Ser Phe His Lys Leu Pro Pro Asp Thr Arg Gln Arg
 580 585 590
 Ile His Asp Tyr Tyr Glu His Arg Tyr Gln Gly Lys Met Phe Asp Glu
 595 600 605
 Glu Ser Ile Leu Gly Glu Leu Ser Glu Pro Leu Arg Glu Glu Ile Ile
 610 615 620
 Asn Phe Asn Cys Arg Lys Leu Val Ala Ser Met Pro Leu Phe Ala Asn
 625 630 635 640
 Ala Asp Pro Asn Phe Val Thr Ser Met Leu Thr Lys Leu Arg Phe Glu
 645 650 655
 Val Phe Gln Pro Gly Asp Tyr Ile Ile Arg Glu Gly Thr Ile Gly Lys
 660 665 670
 Lys Met Tyr Phe Ile Gln His Gly Val Val Ser Val Leu Thr Lys Gly
 675 680 685
 Asn Lys Glu Thr Lys Leu Ala Asp Gly Ser Tyr Phe Gly Glu Ile Cys
 690 695 700
 Leu Leu Thr Arg Gly Arg Arg Thr Ala Ser Val Arg Ala Asp Thr Tyr
 705 710 715 720
 Cys Arg Leu Tyr Ser Leu Ser Val Asp Asn Phe Asn Glu Val Leu Glu
 725 730 735

Glu Tyr Pro Met Met Arg Arg Ala Phe Glu Thr Val Ala Leu Asp Arg
 740 745 750
 Leu Asp Arg Ile Gly Lys Lys Asn Ser Ile Leu Leu His Lys Val Gln
 755 760 765
 His Asp Leu Asn Ser Gly Val Phe Asn Tyr Gln Glu Asn Glu Ile Ile
 770 775 780
 Gln Gln Ile Val Gln His Asp Arg Glu Met Ala His Cys Ala His Arg
 785 790 795 800
 Val Gln Ala Ala Ala Ser Ala Thr Pro Thr Pro Thr Pro Val Ile Trp
 805 810 815
 Thr Pro Leu Ile Gln Ala Pro Leu Gln Ala Ala Ala Thr Thr Ser
 820 825 830
 Val Ala Ile Ala Leu Thr His His Pro Arg Leu Pro Ala Ala Ile Phe
 835 840 845
 Arg Pro Pro Pro Gly Ser Gly Leu Gly Asn Leu Gly Ala Gly Gln Thr
 850 855 860
 Pro Arg His Leu Lys Arg Leu Gln Ser Leu Ile Pro Ser Ala Leu Gly
 865 870 875 880
 Ser Ala Ser Pro Ala Ser Ser Pro Ser Gln Val Asp Thr Pro Ser Ser
 885 890 895
 Ser Ser Phe His Ile Gln Gln Leu Ala Gly Phe Ser Ala Pro Ala Gly
 900 905 910
 Leu Ser Pro Leu Leu Pro Ser Ser Ser Ser Pro Pro Pro Gly Ala
 915 920 925
 Cys Gly Ser Pro Ser Ala Pro Thr Pro Ser Ala Gly Val Ala Ala Thr
 930 935 940
 Thr Ile Ala Gly Phe Gly His Phe His Lys Ala Leu Gly Gly Ser Leu
 945 950 955 960
 Ser Ser Ser Asp Ser Pro Leu Leu Thr Pro Leu Gln Pro Gly Ala Arg
 965 970 975
 Ser Pro Gln Ala Ala Gln Pro Ser Pro Ala Pro Pro Gly Ala Arg Gly
 980 985 990
 Gly Leu Gly Leu Pro Glu His Phe Leu Pro Pro Pro Pro Ser Ser Arg
 995 1000 1005
 Ser Pro Ser Ser Ser Pro Gly Gln Leu Gly Gln Pro Pro Gly Glu Leu
 1010 1015 1020
 Ser Leu Gly Leu Ala Thr Gly Pro Leu Ser Thr Pro Glu Thr Pro Pro
 1025 1030 1035 1040
 Arg Gln Pro Glu Pro Pro Ser Leu Val Ala Gly Ala Ser Gly Gly Ala
 1045 1050 1055
 Ser Pro Val Gly Phe Thr Pro Arg Gly Gly Leu Ser Pro Pro Gly His
 1060 1065 1070
 Ser Pro Gly Pro Pro Arg Thr Phe Pro Ser Ala Pro Pro Arg Ala Ser
 1075 1080 1085
 Gly Ser His Gly Ser Leu Leu Leu Pro Pro Ala Ser Ser Pro Pro Pro
 1090 1095 1100
 Pro Gln Val Pro Gln Arg Gly Thr Pro Pro Leu Thr Pro Gly Arg
 1105 1110 1115 1120
 Leu Thr Gln Asp Leu Lys Leu Ile Ser Ala Ser Gln Pro Ala Leu Pro
 1125 1130 1135
 Gln Asp Gly Ala Gln Thr Leu Arg Arg Ala Ser Pro His Ser Ser Gly
 1140 1145 1150
 Glu Ser Met Ala Ala Phe Pro Leu Phe Pro Arg Ala Gly Gly Gly Ser
 1155 1160 1165
 Gly Gly Ser Gly Ser Ser Gly Gly Leu Gly Pro Pro Gly Arg Pro Tyr
 1170 1175 1180
 Gly Ala Ile Pro Gly Gln His Val Thr Leu Pro Arg Lys Thr Ser Ser
 1185 1190 1195 1200
 Gly Ser Leu Pro Pro Pro Leu Ser Leu Phe Gly Ala Arg Ala Thr Ser
 1205 1210 1215
 Ser Gly Gly Pro Pro Leu Thr Ala Gly Pro Gln Arg Glu Pro Gly Ala
 1220 1225 1230
 Arg Pro Glu Pro Val Arg Ser Lys Leu Pro Ser Asn Leu
 1235 1240 1245

<210> 2324
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 2324
 Glu Tyr Lys Gln Trp Glu Arg Arg Phe Leu Ser Cys Gln Asn Arg Asn
 1 5 10 15
 Asp Leu Gly Tyr Gly Lys Pro Arg Lys Gly Gly Gly Leu Leu Leu Val
 20 25 30
 Pro Val Lys Asp Ala Ser Arg Ile Cys Ser Leu Thr Tyr Leu Leu Gly
 35 40 45
 Ser His Trp Asn Asn Leu Val Val Arg Ser Pro Val Leu Gly
 50 55 60 62

<210> 2325
 <211> 503
 <212> PRT
 <213> Homo sapiens

<400> 2325
 Leu Val Ala Leu Lys Asn Trp Lys Pro Lys Gly Thr Asn Ile Pro Ala
 1 5 10 15
 Pro Gln Ser Pro Val Phe Gly Glu Ala Val Ser Gly Val Tyr Met Met
 20 25 30
 Thr Lys Val Leu Gly Met Ala Pro Val Leu Gly Pro Arg Pro Pro Gln
 35 40 45
 Glu Gln Val Gly Pro Leu Met Val Lys Val Glu Glu Lys Glu Glu Lys
 50 55 60
 Gly Lys Tyr Leu Pro Ser Leu Glu Met Phe Arg Gln Arg Phe Arg Gln
 65 70 75 80
 Phe Gly Tyr His Asp Thr Pro Gly Pro Arg Glu Ala Leu Ser Gln Leu
 85 90 95
 Arg Val Leu Cys Cys Glu Trp Leu Arg Pro Glu Ile His Thr Lys Glu
 100 105 110
 Gln Ile Leu Glu Leu Leu Val Leu Glu Gln Phe Leu Thr Ile Leu Pro
 115 120 125
 Gln Glu Leu Gln Ala Trp Val Gln Glu His Cys Pro Glu Ser Ala Glu
 130 135 140
 Glu Ala Val Thr Leu Leu Glu Asp Leu Glu Arg Glu Leu Asp Glu Pro
 145 150 155 160
 Gly His Gln Val Ser Thr Pro Pro Asn Glu Gln Lys Pro Val Trp Glu
 165 170 175
 Lys Ile Ser Ser Ser Gly Thr Ala Lys Glu Ser Pro Ser Ser Met Gln
 180 185 190
 Pro Gln Pro Leu Glu Thr Ser His Lys Tyr Glu Ser Trp Gly Pro Leu
 195 200 205
 Tyr Ile Gln Glu Ser Gly Glu Glu Gln Glu Phe Ala Gln Asp Pro Arg
 210 215 220
 Lys Val Arg Asp Cys Arg Leu Ser Thr Gln His Glu Glu Ser Ala Asp
 225 230 235 240
 Glu Gln Lys Gly Ser Glu Ala Glu Gly Leu Lys Gly Asp Ile Ile Ser
 245 250 255
 Val Ile Ile Ala Asn Lys Pro Glu Ala Ser Leu Glu Arg Gln Cys Val
 260 265 270
 Asn Leu Glu Asn Glu Lys Gly Thr Lys Pro Pro Leu Gln Glu Ala Gly
 275 280 285

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Ser Lys Lys Gly Arg Glu Ser Val Pro Thr Lys Pro Thr Pro Gly Glu
290                295                300
Arg Arg Tyr Ile Cys Ala Glu Cys Gly Lys Ala Phe Ser Asn Ser Ser
305                310                315                320
Asn Leu Thr Lys His Arg Arg Thr His Thr Gly Glu Lys Pro Tyr Val
                325                330                335
Cys Thr Lys Cys Gly Lys Ala Phe Ser His Ser Ser Asn Leu Thr Leu
                340                345                350
His Tyr Arg Thr His Leu Val Asp Arg Pro Tyr Asp Cys Lys Cys Gly
                355                360                365
Lys Ala Phe Gly Gln Ser Ser Asp Leu Leu Lys His Gln Arg Met His
                370                375                380
Thr Glu Glu Ala Pro Tyr Gln Cys Lys Asp Cys Gly Lys Ala Phe Ser
385                390                395                400
Gly Lys Gly Ser Leu Ile Arg His Tyr Arg Ile His Thr Gly Glu Lys
                405                410                415
Pro Tyr Gln Cys Asn Glu Cys Gly Lys Ser Phe Ser Gln His Ala Gly
                420                425                430
Leu Ser Ser His Gln Arg Leu His Thr Gly Glu Lys Pro Tyr Lys Cys
                435                440                445
Lys Glu Cys Gly Lys Ala Phe Asn His Ser Ser Asn Phe Asn Lys His
                450                455                460
His Arg Ile His Thr Gly Glu Lys Pro Tyr Trp Cys His His Cys Gly
465                470                475                480
Lys Thr Phe Cys Ser Lys Ser Asn Leu Ser Lys His Gln Arg Val His
                485                490                495
Thr Gly Glu Gly Glu Ala Pro
                500                503

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<210> 2326
<211> 2263
<212> PRT
<213> Homo sapiens

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<400> 2326
Gly Asn Met Ala Cys Trp Pro Gln Leu Arg Leu Leu Leu Trp Lys Asn
1          5          10          15
Leu Thr Phe Arg Arg Arg Gln Thr Cys Gln Leu Leu Leu Glu Val Ala
20          25          30
Trp Pro Leu Phe Ile Phe Leu Ile Leu Ile Ser Val Arg Leu Ser Tyr
35          40          45
Pro Pro Tyr Glu Gln His Glu Cys His Phe Pro Asn Lys Ala Met Pro
50          55          60
Ser Ala Gly Thr Leu Pro Trp Val Gln Gly Ile Ile Cys Asn Ala Asn
65          70          75          80
Asn Pro Cys Phe Arg Tyr Pro Thr Pro Gly Glu Ala Pro Gly Val Val
85          90          95
Gly Asn Phe Asn Lys Ser Ile Val Ala Arg Leu Phe Ser Asp Ala Arg
100         105         110
Arg Leu Leu Leu Tyr Ser Gln Lys Asp Thr Ser Met Lys Asp Met Arg
115         120         125
Lys Val Leu Arg Thr Leu Gln Gln Ile Lys Lys Ser Ser Ser Asn Leu
130         135         140
Lys Leu Gln Asp Phe Leu Val Asp Asn Glu Thr Phe Ser Gly Phe Leu
145         150         155         160
Tyr His Asn Leu Ser Leu Pro Lys Ser Thr Val Asp Lys Met Leu Arg
165         170         175
Ala Asp Val Ile Leu His Lys Val Phe Leu Gln Gly Tyr Gln Leu His
180         185         190
Leu Thr Ser Leu Cys Asn Gly Ser Lys Ser Glu Glu Met Ile Gln Leu
195         200         205

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Gly Asp Gln Glu Val Ser Glu Leu Cys Gly Leu Pro Arg Glu Lys Leu
 210 215 220
 Ala Ala Ala Glu Arg Val Leu Arg Ser Asn Met Asp Ile Leu Lys Pro
 225 230 235 240
 Ile Leu Arg Thr Leu Asn Ser Thr Ser Pro Phe Pro Ser Lys Glu Leu
 245 250 255
 Ala Glu Ala Thr Lys Thr Leu Leu His Ser Leu Gly Thr Leu Ala Gln
 260 265 270
 Glu Leu Phe Ser Met Arg Ser Trp Ser Asp Met Arg Gln Glu Val Met
 275 280 285
 Phe Leu Thr Asn Val Asn Ser Ser Ser Ser Thr Gln Ile Tyr Gln
 290 295 300
 Ala Val Ser Arg Ile Val Cys Gly His Pro Glu Gly Gly Gly Leu Lys
 305 310 315 320
 Ile Lys Ser Leu Asn Trp Tyr Glu Asp Asn Asn Tyr Lys Ala Leu Phe
 325 330 335
 Gly Gly Asn Gly Thr Glu Glu Asp Ala Glu Thr Phe Tyr Asp Asn Ser
 340 345 350
 Thr Thr Pro Tyr Cys Asn Asp Leu Met Lys Asn Leu Glu Ser Ser Pro
 355 360 365
 Leu Ser Arg Ile Ile Trp Lys Ala Leu Lys Pro Leu Leu Val Gly Lys
 370 375 380
 Ile Leu Tyr Thr Pro Asp Thr Pro Ala Thr Arg Gln Val Met Ala Glu
 385 390 395 400
 Val Asn Lys Thr Phe Gln Glu Leu Ala Val Phe His Asp Leu Glu Gly
 405 410 415
 Met Trp Glu Glu Leu Ser Pro Lys Ile Trp Thr Phe Met Glu Asn Ser
 420 425 430
 Gln Glu Met Asp Leu Val Arg Met Leu Leu Asp Ser Arg Asp Asn Asp
 435 440 445
 His Phe Trp Glu Gln Gln Leu Asp Gly Leu Asp Trp Thr Ala Gln Asp
 450 455 460
 Ile Val Ala Phe Leu Ala Lys His Pro Glu Asp Val Gln Ser Ser Asn
 465 470 475 480
 Gly Ser Val Tyr Thr Trp Arg Glu Ala Phe Asn Glu Thr Asn Gln Ala
 485 490 495
 Ile Arg Thr Ile Ser Arg Phe Met Glu Cys Val Asn Leu Asn Lys Leu
 500 505 510
 Glu Pro Ile Ala Thr Glu Val Trp Leu Ile Asn Lys Ser Met Glu Leu
 515 520 525
 Leu Asp Glu Arg Lys Phe Trp Ala Gly Ile Val Phe Thr Gly Ile Thr
 530 535 540
 Pro Gly Ser Ile Glu Leu Pro His His Val Lys Tyr Lys Ile Arg Met
 545 550 555 560
 Gly Ile Asp Asn Val Glu Arg Thr Asn Lys Ile Lys Asp Gly Tyr Trp
 565 570 575
 Asp Pro Gly Pro Arg Ala Asp Pro Phe Glu Asp Met Arg Tyr Val Trp
 580 585 590
 Gly Gly Phe Ala Tyr Leu Gln Asp Val Val Glu Gln Ala Ile Ile Arg
 595 600 605
 Val Leu Thr Gly Thr Glu Lys Lys Thr Gly Val Tyr Met Gln Gln Met
 610 615 620
 Pro Tyr Pro Cys Tyr Val Asp Asp Ile Phe Leu Arg Val Met Ser Arg
 625 630 635 640
 Ser Met Pro Leu Phe Met Thr Leu Ala Trp Ile Tyr Ser Val Ala Val
 645 650 655
 Ile Ile Lys Gly Ile Val Tyr Glu Lys Glu Ala Arg Leu Lys Glu Thr
 660 665 670
 Met Arg Ile Met Gly Leu Asp Asn Ser Ile Leu Trp Phe Ser Trp Phe
 675 680 685
 Ile Ser Ser Leu Ile Pro Leu Leu Val Ser Ala Gly Leu Leu Val Val
 690 695 700
 Ile Leu Lys Leu Gly Asn Leu Leu Pro Tyr Ser Asp Pro Ser Val Val
 705 710 715 720

Phe Val Phe Leu Ser Val Phe Ala Val Val Thr Ile Leu Gln Cys Phe
 725 730 735
 Leu Ile Ser Thr Leu Phe Ser Arg Ala Asn Leu Ala Ala Ala Cys Gly
 740 745 750
 Gly Ile Ile Tyr Phe Thr Leu Tyr Leu Pro Tyr Val Leu Cys Val Ala
 755 760 765
 Trp Gln Asp Tyr Val Gly Phe Thr Leu Lys Ile Phe Ala Ser Leu Leu
 770 775 780
 Ser Pro Val Ala Phe Gly Phe Gly Cys Glu Tyr Phe Ala Leu Phe Glu
 785 790 795 800
 Glu Gln Gly Ile Gly Val Gln Trp Asp Asn Leu Phe Glu Ser Pro Val
 805 810 815
 Glu Glu Asp Gly Phe Asn Leu Thr Thr Ser Val Ser Met Met Leu Phe
 820 825 830
 Asp Thr Phe Leu Tyr Gly Val Met Thr Trp Tyr Ile Glu Ala Val Phe
 835 840 845
 Pro Gly Gln Tyr Gly Ile Pro Arg Pro Trp Tyr Phe Pro Cys Thr Lys
 850 855 860
 Ser Tyr Trp Phe Gly Glu Glu Ser Asp Glu Lys Ser His Pro Gly Ser
 865 870 875 880
 Asn Gln Lys Arg Ile Ser Glu Ile Cys Met Glu Glu Glu Pro Thr His
 885 890 895
 Leu Lys Leu Gly Val Ser Ile Gln Asn Leu Val Lys Val Tyr Arg Asp
 900 905 910
 Gly Met Lys Val Ala Val Asp Gly Leu Ala Leu Asn Phe Tyr Glu Gly
 915 920 925
 Gln Ile Thr Ser Phe Leu Gly His Asn Gly Ala Gly Lys Thr Thr Thr
 930 935 940
 Met Ser Ile Leu Thr Gly Leu Phe Pro Pro Thr Ser Gly Thr Ala Tyr
 945 950 955 960
 Ile Leu Gly Lys Asp Ile Arg Ser Glu Met Ser Thr Ile Arg Gln Asn
 965 970 975
 Leu Gly Val Cys Pro Gln His Asn Val Leu Phe Asp Met Leu Thr Val
 980 985 990
 Glu Glu His Ile Trp Phe Tyr Ala Arg Leu Lys Gly Leu Ser Glu Lys
 995 1000 1005
 His Val Lys Ala Glu Met Glu Gln Met Ala Leu Asp Val Gly Leu Pro
 1010 1015 1020
 Ser Ser Lys Leu Lys Ser Lys Thr Ser Gln Leu Ser Gly Gly Met Gln
 1025 1030 1035 1040
 Arg Lys Leu Ser Val Ala Leu Ala Phe Val Gly Gly Ser Lys Val Val
 1045 1050 1055
 Ile Leu Asp Glu Pro Thr Ala Gly Val Asp Pro Tyr Ser Arg Arg Gly
 1060 1065 1070
 Ile Trp Glu Leu Leu Leu Lys Tyr Arg Gln Gly Arg Thr Ile Ile Leu
 1075 1080 1085
 Ser Thr His His Met Asp Glu Ala Asp Val Leu Gly Asp Arg Ile Ala
 1090 1095 1100
 Ile Ile Ser His Gly Lys Leu Cys Cys Val Gly Ser Ser Leu Phe Leu
 1105 1110 1115 1120
 Lys Asn Gln Leu Gly Thr Gly Tyr Tyr Leu Thr Leu Val Lys Lys Asp
 1125 1130 1135
 Val Glu Ser Ser Leu Ser Ser Cys Arg Asn Ser Ser Ser Thr Val Ser
 1140 1145 1150
 Tyr Leu Lys Lys Glu Asp Ser Val Ser Gln Ser Ser Ser Asp Ala Gly
 1155 1160 1165
 Leu Gly Ser Asp His Glu Ser Asp Thr Leu Thr Ile Asp Val Ser Ala
 1170 1175 1180
 Ile Ser Asn Leu Ile Arg Lys His Val Ser Glu Ala Arg Leu Val Glu
 1185 1190 1195 1200
 Asp Ile Gly His Glu Leu Thr Tyr Val Leu Pro Tyr Glu Ala Ala Lys
 1205 1210 1215
 Glu Gly Ala Phe Val Glu Leu Phe His Glu Ile Asp Asp Arg Leu Ser
 1220 1225 1230

Asp Leu Gly Ile Ser Ser Tyr Gly Ile Ser Glu Thr Thr Leu Glu Glu
 1235 1240 1245
 Ile Phe Leu Lys Val Ala Glu Glu Ser Gly Val Asp Ala Glu Thr Ser
 1250 1255 1260
 Asp Gly Thr Leu Pro Ala Arg Arg Asn Arg Arg Ala Phe Gly Asp Lys
 1265 1270 1275 1280
 Gln Ser Cys Leu Arg Pro Phe Thr Glu Asp Asp Ala Ala Asp Pro Asn
 1285 1290 1295
 Asp Ser Asp Ile Asp Pro Glu Ser Arg Glu Thr Asp Leu Leu Ser Gly
 1300 1305 1310
 Met Asp Gly Lys Gly Ser Tyr Gln Val Lys Gly Trp Lys Leu Thr Gln
 1315 1320 1325
 Gln Gln Phe Val Ala Leu Leu Trp Lys Arg Leu Leu Ile Ala Arg Arg
 1330 1335 1340
 Ser Arg Lys Gly Phe Phe Ala Gln Ile Val Leu Pro Ala Val Phe Val
 1345 1350 1355 1360
 Cys Ile Ala Leu Val Phe Ser Leu Ile Val Pro Pro Phe Gly Lys Tyr
 1365 1370 1375
 Pro Ser Leu Glu Leu Gln Pro Trp Met Tyr Asn Glu Gln Tyr Thr Phe
 1380 1385 1390
 Val Ser Asn Asp Ala Pro Glu Asp Thr Gly Thr Leu Glu Leu Leu Asn
 1395 1400 1405
 Ala Leu Thr Lys Asp Pro Gly Phe Gly Thr Arg Cys Met Glu Gly Asn
 1410 1415 1420
 Pro Ile Pro Asp Thr Pro Cys Gln Ala Gly Glu Glu Glu Trp Thr Thr
 1425 1430 1435 1440
 Ala Pro Val Pro Gln Thr Ile Met Asp Leu Phe Gln Asn Gly Asn Trp
 1445 1450 1455
 Thr Met Gln Asn Pro Ser Pro Ala Cys Gln Cys Ser Ser Asp Lys Ile
 1460 1465 1470
 Lys Lys Met Leu Pro Val Cys Pro Pro Gly Ala Gly Gly Leu Pro Pro
 1475 1480 1485
 Pro Gln Arg Lys Gln Asn Thr Ala Asp Ile Leu Gln Asp Leu Thr Gly
 1490 1495 1500
 Arg Asn Ile Ser Asp Tyr Leu Val Lys Thr Tyr Val Gln Ile Ile Ala
 1505 1510 1515 1520
 Lys Ser Leu Lys Asn Lys Ile Trp Val Asn Glu Phe Arg Tyr Gly Gly
 1525 1530 1535
 Phe Ser Leu Gly Val Ser Asn Thr Gln Ala Leu Pro Pro Ser Gln Glu
 1540 1545 1550
 Val Asn Asp Ala Thr Lys Gln Met Lys Lys His Leu Lys Leu Ala Lys
 1555 1560 1565
 Asp Ser Ser Ala Asp Arg Phe Leu Asn Ser Leu Gly Arg Phe Met Thr
 1570 1575 1580
 Gly Leu Asp Thr Arg Asn Asn Val Lys Val Trp Phe Asn Asn Lys Gly
 1585 1590 1595 1600
 Trp His Ala Ile Ser Ser Phe Leu Asn Val Ile Asn Asn Ala Ile Leu
 1605 1610 1615
 Arg Ala Asn Leu Gln Lys Gly Glu Asn Pro Ser His Tyr Gly Ile Thr
 1620 1625 1630
 Ala Phe Asn His Pro Leu Asn Leu Thr Lys Gln Gln Leu Ser Glu Val
 1635 1640 1645
 Ala Pro Met Thr Thr Ser Val Asp Val Leu Val Ser Ile Cys Val Ile
 1650 1655 1660
 Phe Ala Met Ser Phe Val Pro Ala Ser Phe Val Val Phe Leu Ile Gln
 1665 1670 1675 1680
 Glu Arg Val Ser Lys Ala Lys His Leu Gln Phe Ile Ser Gly Val Lys
 1685 1690 1695
 Pro Val Ile Tyr Trp Leu Ser Asn Phe Val Trp Asp Met Cys Asn Tyr
 1700 1705 1710
 Val Val Pro Ala Thr Leu Val Ile Ile Ile Phe Ile Cys Phe Gln Gln
 1715 1720 1725
 Lys Ser Tyr Val Ser Ser Thr Asn Leu Pro Val Leu Ala Leu Leu Leu
 1730 1735 1740

Leu Leu Tyr Gly Trp Ser Ile Thr Pro Leu Met Tyr Pro Ala Ser Phe
 1745 1750 1755 1760
 Val Phe Lys Ile Pro Ser Thr Ala Tyr Val Val Leu Thr Ser Val Asn
 1765 1770 1775
 Leu Phe Ile Gly Ile Asn Gly Ser Val Ala Thr Phe Val Leu Glu Leu
 1780 1785 1790
 Phe Thr Asp Asn Lys Leu Asn Asn Ile Asn Asp Ile Leu Lys Ser Val
 1795 1800 1805
 Phe Leu Ile Phe Pro His Phe Cys Leu Gly Arg Gly Leu Ile Asp Met
 1810 1815 1820
 Val Lys Asn Gln Ala Met Ala Asp Ala Leu Glu Arg Phe Gly Glu Asn
 1825 1830 1835 1840
 Arg Phe Val Ser Pro Leu Ser Trp Asp Leu Val Gly Arg Asn Leu Phe
 1845 1850 1855
 Ala Met Ala Val Glu Gly Val Val Phe Phe Leu Ile Thr Val Leu Ile
 1860 1865 1870
 Gln Tyr Arg Phe Phe Ile Arg Pro Arg Pro Val Asn Ala Lys Leu Ser
 1875 1880 1885
 Pro Leu Asn Asp Glu Asp Glu Asp Val Arg Arg Glu Arg Gln Arg Ile
 1890 1895 1900
 Leu Asp Gly Gly Gly Gln Asn Asp Ile Leu Glu Ile Lys Glu Leu Thr
 1905 1910 1915 1920
 Lys Ile Tyr Arg Arg Lys Arg Lys Pro Ala Val Asp Arg Ile Cys Val
 1925 1930 1935
 Gly Ile Pro Pro Gly Glu Cys Phe Gly Leu Leu Gly Val Asn Gly Ala
 1940 1945 1950
 Gly Lys Ser Ser Thr Phe Lys Met Leu Thr Gly Asp Thr Thr Val Thr
 1955 1960 1965
 Arg Gly Asp Ala Phe Leu Asn Arg Asn Ser Ile Leu Ser Asn Ile His
 1970 1975 1980
 Glu Val His Gln Asn Met Gly Tyr Cys Pro Gln Phe Asp Ala Ile Thr
 1985 1990 1995 2000
 Glu Leu Leu Thr Gly Arg Glu His Val Glu Phe Phe Ala Leu Leu Arg
 2005 2010 2015
 Gly Val Pro Glu Lys Glu Val Gly Lys Val Gly Glu Trp Ala Ile Arg
 2020 2025 2030
 Lys Leu Gly Leu Val Lys Tyr Gly Glu Lys Tyr Ala Gly Asn Tyr Ser
 2035 2040 2045
 Gly Gly Asn Lys Arg Lys Leu Ser Thr Ala Met Ala Leu Ile Gly Gly
 2050 2055 2060
 Pro Pro Val Val Phe Leu Asp Glu Pro Thr Thr Gly Met Asp Pro Lys
 2065 2070 2075 2080
 Ala Arg Arg Phe Leu Trp Asn Cys Ala Leu Ser Val Val Lys Glu Gly
 2085 2090 2095
 Arg Ser Val Val Leu Thr Ser His Ser Met Glu Glu Cys Glu Ala Leu
 2100 2105 2110
 Cys Thr Arg Met Ala Ile Met Val Asn Gly Arg Phe Arg Cys Leu Gly
 2115 2120 2125
 Ser Val Gln His Leu Lys Asn Arg Phe Gly Asp Gly Tyr Thr Ile Val
 2130 2135 2140
 Val Arg Ile Ala Gly Ser Asn Pro Asp Leu Lys Pro Val Gln Asp Phe
 2145 2150 2155 2160
 Phe Gly Leu Ala Phe Pro Gly Ser Val Pro Lys Glu Lys His Arg Asn
 2165 2170 2175
 Met Leu Gln Tyr Gln Leu Pro Ser Ser Leu Ser Ser Leu Ala Arg Ile
 2180 2185 2190
 Phe Ser Ile Leu Ser Gln Ser Lys Lys Arg Leu His Ile Glu Asp Tyr
 2195 2200 2205
 Ser Val Ser Gln Thr Thr Leu Asp Gln Val Phe Val Asn Phe Ala Lys
 2210 2215 2220
 Asp Gln Ser Asp Asp Asp His Leu Lys Asp Leu Ser Leu His Lys Asn
 2225 2230 2235 2240
 Gln Thr Val Val Asp Val Ala Val Leu Thr Ser Phe Leu Gln Asp Glu
 2245 2250 2255

Lys Val Lys Glu Ser Tyr Val
2260 2263

<210> 2327
<211> 521
<212> PRT
<213> Homo sapiens

<400> 2327
Ile Pro Gly Ser Thr Ile Ser Phe Ser Leu Cys Phe Ile Phe Pro Pro
1 5 10 15
Cys Val Pro Thr Met Val Arg Lys Pro Val Val Ser Thr Ile Ser Lys
20 25 30
Gly Gly Tyr Leu Gln Gly Asn Val Asn Gly Arg Leu Pro Ser Leu Gly
35 40 45
Asn Lys Glu Pro Pro Gly Gln Glu Lys Val Gln Leu Lys Arg Lys Val
50 55 60
Thr Leu Leu Arg Gly Val Ser Ile Ile Ile Gly Thr Ile Ile Gly Ala
65 70 75 80
Gly Ile Phe Ile Ser Pro Lys Gly Val Leu Gln Asn Thr Gly Ser Val
85 90 95
Gly Met Ser Leu Thr Ile Trp Thr Val Cys Gly Val Leu Ser Leu Phe
100 105 110
Gly Ala Leu Ser Tyr Ala Glu Leu Gly Thr Thr Ile Lys Lys Ser Gly
115 120 125
Gly His Tyr Thr Tyr Ile Leu Glu Val Phe Gly Pro Leu Pro Ala Phe
130 135 140
Val Arg Val Trp Val Glu Leu Leu Ile Ile Arg Pro Ala Ala Thr Ala
145 150 155 160
Val Ile Ser Leu Ala Phe Gly Arg Tyr Ile Leu Glu Pro Phe Phe Ile
165 170 175
Gln Cys Glu Ile Pro Glu Leu Ala Ile Lys Leu Ile Thr Ala Val Gly
180 185 190
Ile Thr Val Val Met Val Leu Asn Ser Met Ser Val Ser Trp Ser Ala
195 200 205
Arg Ile Gln Ile Phe Leu Thr Phe Cys Lys Leu Thr Ala Ile Leu Ile
210 215 220
Ile Ile Val Pro Gly Val Met Gln Leu Ile Lys Gly Gln Thr Gln Asn
225 230 235 240
Phe Lys Asp Ala Phe Ser Gly Arg Asp Ser Ser Ile Thr Arg Leu Pro
245 250 255
Leu Ala Phe Tyr Tyr Gly Met Tyr Ala Tyr Ala Gly Trp Phe Tyr Leu
260 265 270
Asn Phe Val Thr Glu Glu Val Glu Asn Pro Glu Lys Thr Ile Pro Leu
275 280 285
Ala Ile Cys Ile Ser Met Ala Ile Val Thr Ile Gly Tyr Val Leu Thr
290 295 300
Asn Val Ala Tyr Phe Thr Thr Ile Asn Ala Glu Glu Leu Leu Leu Ser
305 310 315 320
Asn Ala Val Ala Val Thr Phe Ser Glu Arg Leu Leu Gly Asn Phe Ser
325 330 335
Leu Ala Val Pro Ile Phe Val Ala Leu Ser Cys Phe Gly Ser Met Asn
340 345 350
Gly Gly Val Phe Ala Val Ser Arg Leu Phe Tyr Val Ala Ser Arg Glu
355 360 365
Gly His Leu Pro Glu Ile Leu Ser Met Ile His Val Arg Lys His Thr
370 375 380
Pro Leu Pro Ala Val Ile Val Leu His Pro Leu Thr Met Ile Met Leu
385 390 395 400
Phe Ser Gly Asp Leu Asp Ser Leu Leu Asn Phe Leu Ser Phe Ala Arg
405 410 415

Trp Leu Phe Ile Gly Leu Ala Val Ala Gly Leu Ile Tyr Leu Arg Tyr
 420 425 430
 Lys Cys Pro Asp Met His Arg Pro Phe Lys Val Pro Leu Phe Ile Pro
 435 440 445
 Ala Leu Phe Ser Phe Thr Cys Leu Phe Met Val Ala Leu Ser Leu Tyr
 450 455 460
 Ser Asp Pro Phe Ser Thr Gly Ile Gly Phe Val Ile Thr Leu Thr Gly
 465 470 475 480
 Val Pro Ala Tyr Tyr Leu Phe Ile Ile Trp Asp Lys Lys Pro Arg Trp
 485 490 495
 Phe Arg Ile Met Ser Glu Lys Ile Thr Arg Thr Leu Gln Ile Ile Leu
 500 505 510
 Glu Val Val Pro Glu Glu Asp Lys Leu
 515 520 521

<210> 2328

<211> 721

<212> PRT

<213> Homo sapiens

<400> 2328

Arg Gly Gly Ser Leu Arg Cys Val Leu Gly Lys Leu Leu Gly Gln Leu
 1 5 10 15
 Leu Cys Phe Gln Ser Glu Arg Cys Val Arg Phe Pro Glu Gly Leu Leu
 20 25 30
 Arg His Arg Gly Cys Gly Leu Leu Ser Ser Arg Leu Ser Ala Gly Lys
 35 40 45
 Pro Pro Leu Arg Thr Ser Phe Phe Gly Ser Trp Gly Val Leu Pro Pro
 50 55 60
 Leu Ala Asp Ala Ala Ser Met Ser Gly Val Arg Ala Val Arg Ile Ser
 65 70 75 80
 Ile Glu Ser Ala Cys Glu Lys Gln Val His Glu Val Gly Leu Asp Gly
 85 90 95
 Thr Glu Thr Tyr Leu Pro Pro Leu Ser Met Ser Gln Asn Leu Ala Arg
 100 105 110
 Leu Ala Gln Arg Ile Asp Phe Ser Gln Gly Ser Gly Ser Glu Glu Glu
 115 120 125
 Glu Ala Ala Gly Thr Glu Gly Asp Ala Gln Glu Trp Pro Gly Ala Gly
 130 135 140
 Ser Ser Ala Asp Gln Asp Asp Glu Glu Gly Val Val Lys Phe Gln Pro
 145 150 155 160
 Ser Leu Trp Pro Trp Asp Ser Val Arg Asn Asn Leu Arg Ser Ala Leu
 165 170 175
 Thr Glu Met Cys Val Leu Tyr Asp Val Leu Ser Ile Val Arg Asp Lys
 180 185 190
 Lys Phe Met Thr Leu Asp Pro Val Ser Gln Asp Ala Leu Pro Pro Lys
 195 200 205
 Gln Asn Pro Gln Thr Leu Gln Leu Ile Ser Lys Lys Lys Ser Leu Ala
 210 215 220
 Gly Ala Ala Gln Ile Leu Leu Lys Gly Ala Glu Arg Leu Thr Lys Ser
 225 230 235 240
 Val Thr Glu Asn Gln Glu Asn Lys Leu Gln Arg Asp Phe Asn Ser Glu
 245 250 255
 Leu Leu Arg Leu Arg Gln His Trp Lys Leu Arg Lys Val Gly Asp Lys
 260 265 270
 Ile Leu Gly Asp Leu Ser Tyr Arg Ser Ala Gly Ser Leu Phe Pro His
 275 280 285
 His Gly Thr Phe Glu Val Ile Lys Asn Thr Asp Leu Asp Leu Asp Lys
 290 295 300
 Lys Ile Pro Glu Asp Tyr Cys Pro Leu Asp Val Gln Ile Pro Ser Asp
 305 310 315 320

Leu Glu Gly Ser Ala Tyr Ile Lys Val Ser Ile Gln Lys Gln Ala Pro
 325 330 335
 Asp Ile Gly Asp Leu Gly Thr Val Asn Leu Phe Lys Arg Pro Leu Pro
 340 345 350
 Lys Ser Lys Pro Gly Ser Pro His Trp Gln Thr Lys Leu Glu Ala Ala
 355 360 365
 Gln Asn Val Leu Leu Cys Lys Glu Ile Phe Ala Gln Leu Ser Arg Glu
 370 375 380
 Ala Val Gln Ile Lys Ser Gln Val Pro His Ile Val Val Lys Asn Gln
 385 390 395 400
 Ile Ile Ser Gln Pro Phe Pro Ser Leu Gln Leu Ser Ile Ser Leu Cys
 405 410 415
 His Ser Ser Asn Asp Lys Lys Ser Gln Lys Phe Ala Thr Glu Lys Gln
 420 425 430
 Cys Pro Glu Asp His Leu Tyr Val Leu Glu His Asn Leu His Leu Leu
 435 440 445
 Ile Arg Glu Phe His Lys Gln Thr Leu Ser Ser Ile Met Met Pro His
 450 455 460
 Pro Ala Ser Ala Pro Phe Gly His Lys Arg Met Arg Leu Ser Gly Pro
 465 470 475 480
 Gln Ala Phe Asp Lys Asn Glu Ile Asn Ser Leu Gln Ser Ser Glu Gly
 485 490 495
 Leu Leu Glu Lys Ile Ile Lys Gln Ala Lys His Ile Phe Leu Arg Ser
 500 505 510
 Arg Ala Ala Ala Thr Ile Asp Ser Leu Ala Ser Arg Ile Glu Asp Pro
 515 520 525
 Gln Ile Gln Ala His Trp Ser Asn Ile Asn Asp Val Tyr Glu Ser Ser
 530 535 540
 Val Lys Val Leu Ile Thr Ser Gln Gly Tyr Glu Gln Ile Cys Lys Ser
 545 550 555 560
 Ile Gln Leu Gln Leu Asn Ile Gly Val Glu Gln Ile Arg Val Val His
 565 570 575
 Arg Asp Gly Arg Val Ile Thr Leu Ser Tyr Gln Glu Gln Glu Leu Gln
 580 585 590
 Asp Phe Leu Leu Ser Gln Met Ser Gln His Gln Val His Ala Val Gln
 595 600 605
 Gln Leu Ala Lys Val Met Gly Trp Gln Val Leu Ser Phe Ser Asn His
 610 615 620
 Val Gly Leu Gly Pro Ile Glu Ser Ile Gly Asn Ala Ser Ala Ile Thr
 625 630 635 640
 Val Ala Ser Pro Ser Gly Asp Tyr Ala Ile Ser Val Arg Asn Gly Pro
 645 650 655
 Glu Ser Gly Ser Lys Ile Met Val Gln Phe Pro Arg Asn Gln Cys Lys
 660 665 670
 Asp Leu Pro Lys Ser Asp Val Leu Gln Asp Asn Lys Trp Ser His Leu
 675 680 685
 Arg Gly Pro Phe Lys Glu Val Gln Trp Asn Lys Met Glu Gly Arg Asn
 690 695 700
 Phe Val Tyr Lys Met Glu Leu Leu Met Ser Ala Leu Ser Pro Cys Leu
 705 710 715 720
 Leu
 721

<210> 2329
 <211> 350
 <212> PRT
 <213> Homo sapiens

<400> 2329
 Phe Val Trp Asn Pro Arg Gly Gly Arg Lys Arg Arg Arg Gln Ala Ala
 1 5 10 15

Val Thr Gln Ala Ala Thr Arg Ala Ser Gly Thr Pro Ser Pro Arg Asp
 20 25 30
 Gly Thr Met Thr Gln Gly Lys Leu Ser Val Ala Asn Lys Ala Pro Gly
 35 40 45
 Thr Glu Gly Gln Gln Gln Val His Gly Glu Lys Lys Glu Ala Pro Ala
 50 55 60
 Val Pro Ser Ala Pro Pro Ser Tyr Glu Glu Ala Thr Ser Gly Glu Gly
 65 70 75 80
 Met Lys Ala Gly Ala Phe Pro Pro Ala Pro Thr Ala Val Pro Leu His
 85 90 95
 Pro Ser Trp Ala Tyr Val Asp Pro Ser Ser Ser Ser Ser Tyr Asp Asn
 100 105 110
 Gly Phe Pro Thr Gly Asp His Glu Leu Phe Thr Thr Phe Ser Trp Asp
 115 120 125
 Asp Gln Lys Val Arg Arg Val Phe Val Arg Lys Val Tyr Thr Ile Leu
 130 135 140
 Leu Ile Gln Leu Leu Val Thr Leu Ala Val Val Ala Leu Phe Thr Phe
 145 150 155 160
 Cys Asp Pro Val Lys Asp Tyr Val Gln Ala Asn Pro Gly Trp Tyr Trp
 165 170 175
 Ala Ser Tyr Ala Val Phe Phe Ala Thr Tyr Leu Thr Leu Ala Cys Cys
 180 185 190
 Ser Gly Pro Arg Arg His Phe Pro Trp Asn Leu Ile Leu Leu Thr Val
 195 200 205
 Phe Thr Leu Ser Met Ala Tyr Leu Thr Gly Met Leu Ser Ser Tyr Tyr
 210 215 220
 Asn Thr Thr Ser Val Leu Leu Cys Leu Gly Ile Thr Ala Leu Val Cys
 225 230 235 240
 Leu Ser Val Thr Val Phe Ser Phe Gln Thr Lys Phe Asp Phe Thr Ser
 245 250 255
 Cys Gln Gly Val Leu Phe Val Leu Leu Met Thr Leu Phe Phe Ser Gly
 260 265 270
 Leu Ile Leu Ala Ile Leu Leu Pro Phe Gln Tyr Val Pro Trp Leu His
 275 280 285
 Ala Val Tyr Ala Ala Leu Gly Ala Gly Val Phe Thr Leu Phe Leu Ala
 290 295 300
 Leu Asp Thr Gln Leu Leu Met Gly Asn Arg Arg His Ser Leu Ser Pro
 305 310 315 320
 Glu Glu Tyr Ile Phe Gly Ala Leu Asn Ile Tyr Leu Asp Ile Ile Tyr
 325 330 335
 Ile Phe Thr Phe Phe Leu Gln Leu Phe Gly Thr Asn Arg Glu
 340 345 350

<210> 2330

<211> 266

<212> PRT

<213> Homo sapiens

<400> 2330

Ala Ser Gln Leu Pro Asp Tyr Ser Ile Ser Pro Pro Ser Leu Pro Pro
 1 5 10 15
 Arg Ile Ser Phe His Pro Ser Pro Thr Leu Ala Arg Val Ala Met Ala
 20 25 30
 Glu Pro Ser Glu Ala Thr Gln Ser His Ser Ile Ser Ser Ser Phe
 35 40 45
 Gly Ala Glu Pro Ser Ala Pro Gly Gly Gly Gly Ser Pro Gly Ala Cys
 50 55 60
 Pro Ala Leu Gly Thr Lys Ser Cys Ser Ser Ser Cys Ala Val His Asp
 65 70 75 80
 Leu Ile Phe Trp Arg Asp Val Lys Lys Thr Gly Phe Val Phe Gly Thr
 85 90 95

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Thr Leu Ile Met Leu Leu Ser Leu Ala Ala Phe Ser Val Ile Ser Val
      100      105      110
Val Ser Tyr Leu Ile Leu Ala Leu Leu Ser Val Thr Ile Ser Phe Arg
      115      120      125
Ile Tyr Lys Ser Val Ile Gln Ala Val Gln Lys Ser Glu Glu Gly His
      130      135      140
Pro Phe Lys Ala Tyr Leu Asp Val Asp Ile Thr Leu Ser Ser Glu Ala
145      150      155      160
Phe His Asn Tyr Met Asn Ala Ala Met Val His Ile Asn Arg Ala Leu
      165      170      175
Lys Leu Ile Ile Arg Leu Phe Leu Val Glu Asp Leu Val Asp Ser Leu
      180      185      190
Lys Leu Ala Val Phe Met Trp Leu Met Thr Tyr Val Gly Ala Val Phe
195      200      205
Asn Gly Ile Thr Leu Leu Ile Leu Ala Glu Leu Leu Ile Phe Ser Val
210      215      220
Pro Ile Val Tyr Glu Lys Tyr Lys Thr Gln Ile Asp His Tyr Val Gly
225      230      235      240
Ile Ala Arg Asp Gln Thr Lys Ser Ile Val Glu Lys Ile Gln Ala Lys
      245      250      255
Leu Pro Gly Ile Ala Lys Lys Lys Ala Glu
      260      265 266

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<210> 2331
<211> 383
<212> PRT
<213> Homo sapiens

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      <400> 2331
Thr Arg Met Ser Arg His Glu Gly Val Ser Cys Asp Ala Cys Leu Lys
 1      5      10      15
Gly Asn Phe Arg Gly Arg Arg Tyr Lys Cys Leu Ile Cys Tyr Asp Tyr
      20      25      30
Asp Leu Cys Ala Ser Cys Tyr Glu Ser Gly Ala Thr Thr Thr Arg His
35      40      45
Thr Thr Asp His Pro Met Gln Cys Ile Leu Thr Arg Val Asp Phe Asp
50      55      60
Leu Tyr Tyr Gly Gly Glu Ala Phe Ser Val Glu Gln Pro Gln Ser Phe
65      70      75      80
Thr Cys Pro Tyr Cys Gly Lys Met Gly Tyr Thr Glu Thr Ser Leu Gln
      85      90      95
Glu His Val Thr Ser Glu His Ala Glu Thr Ser Thr Glu Val Ile Cys
100      105      110
Pro Ile Cys Ala Ala Leu Pro Gly Gly Asp Pro Asn His Val Thr Asp
115      120      125
Asp Phe Ala Ala His Leu Thr Leu Glu His Arg Ala Pro Arg Asp Leu
130      135      140
Asp Glu Ser Ser Gly Val Arg His Val Arg Arg Met Phe His Pro Gly
145      150      155      160
Arg Gly Leu Gly Gly Pro Arg Ala Arg Arg Ser Asn Met His Phe Thr
165      170      175
Ser Ser Ser Thr Gly Gly Leu Ser Ser Ser Gln Ser Ser Tyr Ser Pro
180      185      190
Ser Asn Arg Glu Ala Met Asp Pro Ile Ala Glu Leu Leu Ser Gln Leu
195      200      205
Ser Gly Val Arg Arg Ser Ala Gly Gly Gln Leu Asn Ser Ser Gly Pro
210      215      220
Ser Ala Ser Gln Leu Gln Leu Gln Met Gln Leu Gln Leu Glu Arg
225      230      235      240
Gln His Ala Gln Ala Ala Arg Gln Gln Leu Glu Thr Ala Arg Asn Ala
      245      250      255

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Thr Arg Arg Thr Asn Thr Ser Ser Val Thr Thr Thr Ile Thr Gln Ser
 260 265 270
 Thr Ala Thr Thr Asn Ile Ala Asn Thr Glu Ser Ser Gln Gln Thr Leu
 275 280 285
 Gln Asn Ser Gln Phe Leu Leu Thr Arg Leu Asn Asp Pro Lys Met Ser
 290 295 300
 Glu Thr Glu Arg Gln Ser Met Glu Ser Glu Arg Ala Asp Arg Ser Leu
 305 310 315 320
 Phe Val Gln Glu Leu Leu Ser Thr Leu Val Arg Glu Glu Ser Ser
 325 330 335
 Ser Ser Asp Glu Asp Asp Arg Gly Glu Met Ala Asp Phe Gly Ala Met
 340 345 350
 Gly Cys Val Asp Ile Met Pro Leu Asp Val Ala Leu Glu Asn Leu Asn
 355 360 365
 Leu Lys Glu Ser Asn Lys Gly Asn Glu Pro Pro Pro Pro Pro Leu
 370 375 380 383

<210> 2332

<211> 334

<212> PRT

<213> Homo sapiens

<400> 2332

Gly Ser Thr His Ala Ser Ala Asp Ala Trp Ala Gln Trp Phe Cys Thr
 1 5 10 15
 Glu Ala Leu Val Met Gly Ala Pro Val Trp Tyr Leu Val Ala Ala Ala
 20 25 30
 Leu Leu Val Gly Phe Ile Leu Phe Leu Thr Arg Ser Arg Gly Arg Ala
 35 40 45
 Ala Ser Ala Gly Gln Glu Pro Leu His Asn Glu Glu Leu Ala Gly Ala
 50 55 60
 Gly Arg Val Ala Gln Pro Gly Pro Leu Glu Pro Glu Glu Pro Arg Ala
 65 70 75 80
 Gly Gly Arg Pro Arg Arg Arg Arg Asp Leu Gly Ser Arg Leu Gln Ala
 85 90 95
 Gln Arg Arg Ala Gln Arg Val Ala Trp Ala Glu Ala Asp Glu Asn Glu
 100 105 110
 Glu Glu Ala Val Ile Leu Ala Gln Glu Glu Glu Gly Val Glu Lys Pro
 115 120 125
 Ala Glu Thr His Leu Ser Gly Lys Ile Gly Ala Lys Lys Leu Arg Lys
 130 135 140
 Leu Glu Glu Lys Gln Ala Arg Lys Ala Gln Arg Glu Ala Glu Glu Ala
 145 150 155 160
 Glu Arg Glu Glu Arg Lys Arg Leu Glu Ser Gln Arg Glu Ala Glu Trp
 165 170 175
 Lys Lys Glu Glu Glu Arg Leu Arg Leu Glu Glu Glu Gln Lys Glu Glu
 180 185 190
 Glu Glu Arg Lys Ala Arg Glu Glu Gln Ala Gln Arg Glu His Glu Glu
 195 200 205
 Tyr Leu Lys Leu Lys Glu Ala Phe Val Val Glu Glu Glu Gly Val Gly
 210 215 220
 Glu Thr Met Thr Glu Glu Gln Ser Gln Ser Phe Leu Thr Glu Phe Ile
 225 230 235 240
 Asn Tyr Ile Lys Gln Ser Lys Val Val Leu Leu Glu Asp Leu Ala Ser
 245 250 255
 Gln Val Gly Leu Arg Thr Gln Asp Thr Ile Asn Arg Ile Gln Asp Leu
 260 265 270
 Leu Ala Glu Gly Thr Ile Thr Gly Val Ile Asp Asp Arg Gly Lys Phe
 275 280 285
 Ile Tyr Ile Thr Pro Glu Glu Leu Ala Ala Val Ala Asn Phe Ile Arg
 290 295 300

Gln Arg Gly Arg Val Ser Ile Ala Glu Leu Ala Gln Ala Ser Asn Ser
 305 310 315 320
 Leu Ile Ala Trp Gly Arg Glu Ser Pro Ala Gln Ala Pro Ala
 325 330 334

<210> 2333
 <211> 392
 <212> PRT
 <213> Homo sapiens

<400> 2333
 Arg Arg Arg Trp Arg Ala Arg Gly Gly Leu Val Pro Thr Leu Ala Trp
 1 5 10 15
 Ala Glu Ala Thr Gly Ala Tyr Val Pro Gly Arg Asp Lys Pro Asp Leu
 20 25 30
 Pro Thr Trp Lys Arg Asn Phe Arg Ser Ala Leu Asn Arg Lys Glu Gly
 35 40 45
 Leu Arg Leu Ala Glu Asp Arg Ser Lys Asp Pro His Asp Pro His Lys
 50 55 60
 Ile Tyr Glu Phe Val Asn Ser Gly Val Gly Asp Phe Ser Gln Pro Asp
 65 70 75 80
 Thr Ser Pro Asp Thr Asn Gly Gly Gly Ser Thr Ser Asp Thr Gln Glu
 85 90 95
 Asp Ile Leu Asp Glu Leu Leu Gly Asn Met Val Leu Ala Pro Leu Pro
 100 105 110
 Asp Pro Gly Pro Pro Ser Leu Ala Val Ala Pro Glu Pro Cys Pro Gln
 115 120 125
 Pro Leu Arg Ser Pro Ser Leu Asp Asn Pro Thr Pro Phe Pro Asn Leu
 130 135 140
 Gly Pro Ser Glu Asn Pro Leu Lys Arg Leu Leu Val Pro Gly Glu Glu
 145 150 155 160
 Trp Glu Phe Glu Val Thr Ala Phe Tyr Arg Gly Arg Gln Val Phe Gln
 165 170 175
 Gln Thr Ile Ser Cys Pro Glu Gly Leu Arg Leu Val Gly Ser Glu Val
 180 185 190
 Gly Asp Arg Thr Leu Pro Gly Trp Pro Val Thr Leu Pro Asp Pro Gly
 195 200 205
 Met Ser Leu Thr Asp Arg Gly Val Met Ser Tyr Val Arg His Val Leu
 210 215 220
 Ser Cys Leu Gly Gly Gly Leu Ala Leu Trp Arg Ala Gly Gln Trp Leu
 225 230 235 240
 Trp Ala Gln Arg Leu Gly His Cys His Thr Tyr Trp Ala Val Ser Glu
 245 250 255
 Glu Leu Leu Pro Asn Ser Gly His Gly Pro Asp Gly Glu Val Pro Lys
 260 265 270
 Asp Lys Glu Gly Gly Val Phe Asp Leu Gly Pro Phe Ile Val Gly Ser
 275 280 285
 Leu Gly Pro Pro Asp Leu Ile Thr Phe Thr Glu Gly Ser Gly Arg Ser
 290 295 300
 Pro Arg Tyr Ala Leu Trp Phe Cys Val Gly Glu Ser Trp Pro Gln Asp
 305 310 315 320
 Gln Pro Trp Thr Lys Arg Leu Val Met Val Lys Val Val Pro Thr Cys
 325 330 335
 Leu Arg Ala Leu Val Glu Met Ala Arg Val Gly Gly Ala Ser Ser Leu
 340 345 350
 Glu Asn Thr Val Asp Leu His Ile Ser Asn Ser His Pro Leu Ser Leu
 355 360 365
 Thr Ser Asp Gln Tyr Lys Ala Tyr Leu Gln Asp Leu Val Glu Gly Met
 370 375 380
 Asp Phe Gln Gly Pro Gly Glu Ser
 385 390 392

<210> 2334
 <211> 414
 <212> PRT
 <213> Homo sapiens

<400> 2334
 Ala Asn Met Ala Pro Val Glu His Val Val Ala Asp Ala Gly Ala Phe
 1 5 10 15
 Leu Arg His Ala Ala Leu Gln Asp Ile Gly Lys Asn Ile Tyr Thr Ile
 20 25 30
 Arg Glu Val Val Thr Glu Ile Arg Asp Lys Ala Thr Arg Arg Arg Leu
 35 40 45
 Ala Val Leu Pro Tyr Glu Leu Arg Phe Lys Glu Pro Leu Pro Glu Tyr
 50 55 60
 Val Arg Leu Val Thr Glu Phe Ser Lys Lys Thr Gly Asp Tyr Pro Ser
 65 70 75 80
 Leu Ser Ala Thr Asp Ile Gln Val Leu Ala Leu Thr Tyr Gln Leu Glu
 85 90 95
 Ala Glu Phe Val Gly Val Ser His Leu Lys Gln Glu Pro Gln Lys Val
 100 105 110
 Lys Val Ser Ser Ser Ile Gln His Pro Glu Thr Pro Leu His Ile Ser
 115 120 125
 Gly Phe His Leu Pro Tyr Lys Pro Lys Pro Pro Gln Glu Thr Glu Lys
 130 135 140
 Gly His Ser Ala Cys Glu Pro Glu Asn Leu Glu Phe Ser Ser Phe Met
 145 150 155 160
 Phe Trp Arg Asn Pro Leu Pro Asn Ile Asp His Glu Leu Gln Glu Leu
 165 170 175
 Leu Ile Asp Arg Gly Glu Asp Val Pro Ser Glu Glu Glu Glu Glu Glu
 180 185 190
 Glu Asn Gly Phe Glu Asp Arg Lys Asp Asp Ser Asp Asp Asp Gly Gly
 195 200 205
 Gly Trp Ile Thr Pro Ser Asn Ile Lys Gln Ile Gln Gln Glu Leu Glu
 210 215 220
 Gln Cys Asp Val Pro Glu Asp Val Arg Val Gly Cys Leu Thr Thr Asp
 225 230 235 240
 Phe Ala Met Gln Asn Val Leu Leu Gln Met Gly Leu His Val Leu Ala
 245 250 255
 Val Asn Gly Met Leu Ile Arg Glu Ala Arg Ser Tyr Ile Leu Arg Cys
 260 265 270
 His Gly Cys Phe Lys Thr Thr Ser Asp Met Ser Arg Val Phe Cys Ser
 275 280 285
 His Cys Gly Asn Lys Thr Leu Lys Lys Val Ser Val Thr Val Ser Asp
 290 295 300
 Asp Gly Thr Leu His Met His Phe Ser Arg Asn Pro Lys Val Leu Asn
 305 310 315 320
 Pro Arg Gly Leu Arg Tyr Ser Leu Pro Thr Pro Lys Gly Gly Lys Tyr
 325 330 335
 Ala Ile Asn Pro His Leu Thr Glu Asp Gln Arg Phe Pro Gln Leu Arg
 340 345 350
 Leu Ser Gln Lys Ala Arg Gln Lys Thr Asn Val Phe Ala Pro Asp Tyr
 355 360 365
 Ile Ala Gly Val Ser Pro Phe Val Glu Asn Asp Ile Ser Ser Arg Ser
 370 375 380
 Ala Thr Leu Gln Val Arg Asp Ser Thr Leu Gly Ala Gly Arg Arg Arg
 385 390 395 400
 Leu Asn Pro Asn Ala Ser Arg Lys Lys Phe Val Lys Lys Arg
 405 410 414

<210> 2335
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 2335
 Arg Arg Asn Asn Ile Arg Gln Phe Ile Met Lys Val Cys Ile Ser Gly
 1 5 10 15
 Gln Ala Arg Trp Leu Thr Pro Val Val Pro Val Leu Trp Glu Thr Glu
 20 25 30
 Ala Gly Arg Ser Leu Glu Leu Lys Ser Leu Arg Pro Ala Trp Ala Thr
 35 40 45
 Trp Gly Asn Pro Ile Ser Thr Lys Ile Asn Lys
 50 55 59

<210> 2336
 <211> 361
 <212> PRT
 <213> Homo sapiens

<400> 2336
 Lys Met Asn Pro Thr Asp Ile Ala Asp Thr Thr Leu Asp Glu Ser Ile
 1 5 10 15
 Tyr Ser Asn Tyr Tyr Leu Tyr Glu Ser Ile Pro Lys Pro Cys Thr Lys
 20 25 30
 Glu Gly Ile Lys Ala Phe Gly Glu Leu Phe Leu Pro Pro Leu Tyr Ser
 35 40 45
 Leu Val Phe Val Phe Gly Leu Leu Gly Asn Ser Val Val Val Leu Val
 50 55 60
 Leu Phe Lys Tyr Lys Arg Leu Arg Ser Met Thr Asp Val Tyr Leu Leu
 65 70 75 80
 Asn Leu Ala Ile Ser Asp Leu Leu Phe Val Phe Ser Leu Pro Phe Trp
 85 90 95
 Gly Tyr Tyr Ala Ala Asp Gln Trp Val Phe Gly Leu Gly Leu Cys Lys
 100 105 110
 Met Ile Ser Trp Met Tyr Leu Val Gly Phe Tyr Ser Gly Ile Phe Phe
 115 120 125
 Val Met Leu Met Ser Ile Asp Arg Tyr Leu Ala Ile Val His Ala Val
 130 135 140
 Phe Ser Leu Arg Ala Arg Thr Leu Thr Tyr Gly Val Ile Thr Ser Leu
 145 150 155 160
 Ala Thr Trp Ser Val Ala Val Phe Ala Ser Leu Pro Gly Phe Leu Phe
 165 170 175
 Ser Thr Cys Tyr Thr Glu Arg Asn His Thr Tyr Cys Lys Thr Lys Tyr
 180 185 190
 Ser Leu Asn Ser Thr Thr Trp Lys Val Leu Ser Ser Leu Glu Ile Asn
 195 200 205
 Ile Leu Gly Leu Val Ile Pro Leu Gly Ile Met Leu Phe Cys Tyr Ser
 210 215 220
 Met Ile Ile Arg Thr Leu Gln His Cys Lys Asn Glu Lys Lys Asn Lys
 225 230 235 240
 Ala Val Lys Met Ile Phe Ala Val Val Val Leu Phe Leu Gly Phe Trp
 245 250 255
 Thr Pro Tyr Asn Ile Val Leu Phe Leu Glu Thr Leu Val Glu Leu Glu
 260 265 270
 Val Leu Gln Asp Cys Thr Phe Glu Arg Tyr Leu Asp Tyr Ala Ile Gln
 275 280 285
 Ala Thr Glu Thr Leu Ala Phe Val His Cys Cys Leu Asn Pro Ile Ile
 290 295 300

Tyr Phe Phe Leu Gly Glu Lys Phe Arg Lys Tyr Ile Leu Gln Leu Phe
 305 310 315 320
 Lys Thr Cys Arg Gly Leu Phe Val Leu Cys Gln Tyr Cys Gly Leu Leu
 325 330 335
 Gln Ile Tyr Ser Ala Asp Thr Pro Ser Ser Ser Tyr Thr Gln Ser Thr
 340 345 350
 Met Asp His Asp Leu His Asp Ala Leu
 355 360 361

<210> 2337
 <211> 155
 <212> PRT
 <213> Homo sapiens

<400> 2337
 Ser Leu Ser Ala Met Arg Phe Leu Ala Ala Thr Phe Leu Leu Leu Ala
 1 5 10 15
 Leu Ser Thr Ala Ala Gln Ala Glu Pro Val Gln Phe Lys Asp Cys Gly
 20 25 30
 Ser Val Asp Gly Val Ile Lys Glu Val Asn Val Ser Pro Cys Pro Thr
 35 40 45
 Gln Pro Cys Gln Leu Ser Lys Gly Gln Ser Tyr Ser Val Asn Val Thr
 50 55 60
 Phe Thr Ser Asn Ile Gln Ser Lys Ser Ser Lys Ala Val Val His Gly
 65 70 75 80
 Ile Leu Met Gly Val Pro Val Pro Phe Pro Ile Pro Glu Pro Asp Gly
 85 90 95
 Cys Lys Ser Gly Ile Asn Cys Pro Ile Gln Lys Asp Lys Thr Tyr Ser
 100 105 110
 Tyr Leu Asn Lys Leu Pro Val Lys Ser Glu Tyr Pro Ser Ile Lys Leu
 115 120 125
 Val Val Glu Trp Gln Leu Gln Asp Asp Lys Asn Gln Ser Leu Phe Cys
 130 135 140
 Trp Glu Ile Pro Val Gln Ile Val Ser His Leu
 145 150 155

<210> 2338
 <211> 294
 <212> PRT
 <213> Homo sapiens

<400> 2338
 Val Ile Lys Met Ala Leu Ala Ala Arg Leu Leu Pro Gln Phe Leu His
 1 5 10 15
 Ser Arg Ser Leu Pro Cys Gly Ala Val Arg Leu Arg Thr Pro Ala Val
 20 25 30
 Ala Glu Val Arg Leu Pro Ser Ala Thr Leu Cys Tyr Phe Cys Arg Cys
 35 40 45
 Arg Leu Gly Leu Gly Ala Ala Leu Phe Pro Arg Ser Ala Arg Ala Leu
 50 55 60
 Ala Ala Ser Ala Leu Pro Ala Gln Gly Ser Arg Trp Pro Val Leu Ser
 65 70 75 80
 Ser Pro Gly Leu Pro Ala Ala Phe Ala Ser Phe Pro Ala Cys Pro Gln
 85 90 95
 Arg Ser Tyr Ser Thr Glu Glu Lys Pro Gln Gln His Gln Lys Thr Lys
 100 105 110
 Met Ile Val Leu Gly Phe Ser Asn Pro Ile Asn Trp Val Arg Thr Arg
 115 120 125

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Ile Lys Ala Phe Leu Ile Trp Ala Tyr Phe Asp Lys Glu Phe Ser Ile
 130          135          140
Thr Glu Phe Ser Glu Gly Ala Lys Gln Ala Phe Ala His Val Ser Lys
145          150          155          160
Leu Leu Ser Gln Cys Lys Phe Asp Leu Leu Glu Glu Leu Val Ala Lys
          165          170          175
Glu Val Leu His Ala Leu Lys Glu Lys Val Thr Ser Leu Pro Asp Asn
          180          185          190
His Lys Asn Ala Leu Ala Ala Asn Ile Asp Glu Ile Val Phe Thr Ser
          195          200          205
Thr Gly Asp Ile Ser Ile Tyr Tyr Asp Glu Lys Gly Arg Lys Phe Val
210          215          220
Asn Ile Leu Met Cys Phe Trp Tyr Leu Thr Ser Ala Asn Ile Pro Ser
225          230          235          240
Glu Thr Leu Arg Gly Ala Ser Val Phe Gln Val Lys Leu Gly Asn Gln
          245          250          255
Asn Val Glu Thr Lys Gln Leu Leu Ser Ala Ser Tyr Glu Phe Gln Arg
          260          265          270
Glu Phe Thr Gln Gly Val Lys Pro Asp Trp Thr Ile Ala Arg Ile Glu
          275          280          285
His Ser Lys Leu Leu Glu
290          294

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<210> 2339
<211> 39
<212> PRT
<213> Homo sapiens

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<400> 2339
Met Ser Gly Phe Ile His Gln Leu Leu Ile Gln Asn Leu Phe Cys Val
 1          5          10          15
Tyr His Thr Arg Leu Lys Thr Ser Gln Gly Leu Cys Leu Leu Ser Leu
          20          25          30
Lys Ser Leu His Pro Met Ser
          35          39

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<210> 2340
<211> 301
<212> PRT
<213> Homo sapiens

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<400> 2340
Ala Ser Pro Phe Leu Arg Pro Gln Gly His Asp Ser Gly Glu Arg Glu
 1          5          10          15
Pro Phe Ser Gln Thr Pro Gly Leu Met Gln Pro Phe Ser Ile Pro Val
          20          25          30
Gln Ile Thr Leu Gln Gly Ser Arg Arg Arg Gln Gly Arg Thr Ala Phe
          35          40          45
Pro Ala Ser Gly Lys Lys Arg Glu Thr Asp Tyr Ser Asp Gly Asp Pro
          50          55          60
Leu Asp Val His Lys Arg Leu Pro Ser Ser Thr Gly Glu Asp Arg Ala
          65          70          75          80
Val Met Leu Gly Phe Ala Met Met Gly Phe Ser Val Leu Met Phe Phe
          85          90          95
Leu Leu Gly Thr Thr Ile Leu Lys Pro Phe Met Leu Ser Ile Gln Arg
          100          105          110
Glu Glu Ser Thr Cys Thr Ala Ile His Thr Asp Ile Met Asp Asp Trp
          115          120          125

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Leu Asp Cys Ala Phe Thr Cys Gly Val His Cys His Gly Gln Gly Lys
 130 135 140
 Tyr Pro Cys Leu Gln Val Phe Val Asn Leu Ser His Pro Gly Gln Lys
 145 150 155 160
 Ala Leu Leu His Tyr Asn Glu Glu Ala Val Gln Ile Asn Pro Lys Cys
 165 170 175
 Phe Tyr Thr Pro Lys Cys His Gln Asp Arg Asn Asp Leu Leu Asn Ser
 180 185 190
 Ala Leu Asp Ile Lys Glu Phe Phe Asp His Lys Asn Gly Thr Pro Phe
 195 200 205
 Ser Cys Phe Tyr Ser Pro Ala Ser Gln Ser Glu Asp Val Ile Leu Ile
 210 215 220
 Lys Lys Tyr Asp Gln Met Ala Ile Phe His Cys Leu Phe Trp Pro Ser
 225 230 235 240
 Leu Thr Leu Leu Gly Gly Ala Leu Ile Val Gly Met Val Arg Leu Thr
 245 250 255
 Gln His Leu Ser Leu Leu Cys Glu Lys Tyr Ser Thr Val Val Arg Asp
 260 265 270
 Glu Val Gly Gly Lys Val Pro Tyr Ile Glu Gln His Gln Phe Lys Leu
 275 280 285
 Cys Ile Met Arg Arg Ser Lys Gly Arg Ala Glu Lys Ser
 290 295 300 301

<210> 2341
 <211> 303
 <212> PRT
 <213> Homo sapiens

<400> 2341
 Ser Ser Val Val Glu Phe Ser Ala Leu Ser Val Ser Met Ala Cys Leu
 1 5 10 15
 Ser Pro Ser Gln Leu Gln Lys Phe Gln Gln Asp Gly Phe Leu Val Leu
 20 25 30
 Glu Gly Phe Leu Ser Ala Glu Glu Cys Val Ala Met Gln Gln Arg Ile
 35 40 45
 Gly Glu Ile Val Ala Glu Met Asp Val Pro Leu His Cys Arg Thr Glu
 50 55 60
 Phe Ser Thr Gln Glu Glu Glu Gln Leu Arg Ala Gln Gly Ser Thr Asp
 65 70 75 80
 Tyr Phe Leu Ser Ser Gly Asp Lys Ile Arg Phe Phe Phe Glu Lys Gly
 85 90 95
 Val Phe Asp Glu Lys Gly Asn Phe Leu Val Pro Pro Glu Lys Ser Ile
 100 105 110
 Asn Lys Ile Gly His Ala Leu His Ala His Asp Pro Val Phe Lys Ser
 115 120 125
 Ile Thr His Ser Phe Lys Val Gln Thr Leu Ala Arg Ser Leu Gly Leu
 130 135 140
 Gln Met Pro Val Val Val Gln Ser Met Tyr Ile Phe Lys Gln Pro His
 145 150 155 160
 Phe Gly Gly Glu Val Ser Pro His Gln Asp Ala Ser Phe Leu Tyr Thr
 165 170 175
 Glu Pro Leu Gly Arg Val Leu Gly Val Trp Ile Ala Val Glu Asp Ala
 180 185 190
 Thr Leu Glu Asn Gly Cys Leu Trp Phe Ile Pro Gly Ser His Thr Ser
 195 200 205
 Gly Val Ser Arg Arg Met Val Arg Ala Pro Val Gly Ser Ala Pro Gly
 210 215 220
 Thr Ser Phe Leu Gly Ser Glu Pro Ala Arg Asp Asn Ser Leu Phe Val
 225 230 235 240
 Pro Thr Pro Val Gln Arg Gly Ala Leu Val Leu Ile His Gly Glu Val
 245 250 255

```
<210> 2342
<211> 301
<212> PRT
<213> Homo sapiens
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```
<210> 2343
<211> 931
<212> PRT
<213> Homo sapiens
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1401

Met	Arg	Met	Gln	Arg	His	Lys	Asn	Asp	Thr	Met	Asp	Phe	Gly	Asp	Ser	1	5	10	15
Gly	Lys	Arg	Ile	Gly	Gly	Gly	Val	Leu	Cys	Leu	Leu	His	Gln	Ser	Asn	20	25	30	
Thr	Ser	Phe	Ile	Lys	Leu	Asn	Asn	Asn	Gly	Phe	Glu	Asp	Ile	Val	Ile	35	40	45	
Val	Ile	Asp	Pro	Ser	Val	Pro	Glu	Asp	Glu	Lys	Ile	Ile	Glu	Gln	Ile	50	55	60	
Glu	Asp	Met	Val	Thr	Thr	Ala	Ser	Thr	Tyr	Leu	Phe	Glu	Ala	Thr	Glu	65	70	75	80
Lys	Arg	Phe	Phe	Phe	Lys	Asn	Val	Ser	Ile	Leu	Ile	Pro	Glu	Asn	Trp	85	90	95	
Lys	Glu	Asn	Pro	Gln	Tyr	Lys	Arg	Pro	Lys	His	Glu	Asn	His	Lys	His	100	105	110	
Ala	Asp	Val	Ile	Val	Ala	Pro	Pro	Thr	Leu	Pro	Gly	Arg	Asp	Glu	Pro	115	120	125	
Tyr	Thr	Lys	Gln	Phe	Thr	Glu	Cys	Gly	Glu	Lys	Gly	Glu	Tyr	Ile	His	130	135	140	
Phe	Thr	Pro	Asp	Leu	Leu	Leu	Gly	Lys	Lys	Gln	Asn	Glu	Tyr	Gly	Pro	145	150	155	160
Pro	Gly	Lys	Leu	Phe	Val	His	Glu	Trp	Ala	His	Leu	Arg	Trp	Gly	Val	165	170	175	
Phe	Asp	Glu	Tyr	Asn	Glu	Asp	Gln	Pro	Phe	Tyr	Arg	Ala	Lys	Ser	Lys	180	185	190	
Lys	Ile	Glu	Ala	Thr	Arg	Cys	Ser	Ala	Gly	Ile	Ser	Gly	Arg	Asn	Arg	195	200	205	
Val	Tyr	Lys	Cys	Gln	Gly	Gly	Ser	Cys	Leu	Ser	Arg	Ala	Cys	Arg	Ile	210	215	220	
Asp	Ser	Thr	Thr	Lys	Leu	Tyr	Gly	Lys	Asp	Cys	Gln	Phe	Phe	Pro	Asp	225	230	235	240
Lys	Val	Gln	Thr	Glu	Lys	Ala	Ser	Ile	Met	Phe	Met	Gln	Ser	Ile	Asp	245	250	255	
Ser	Val	Val	Glu	Phe	Cys	Asn	Glu	Lys	Thr	His	Asn	Gln	Glu	Ala	Pro	260	265	270	
Ser	Leu	Gln	Asn	Ile	Lys	Cys	Asn	Phe	Arg	Ser	Thr	Trp	Glu	Val	Ile	275	280	285	
Ser	Asn	Ser	Glu	Asp	Phe	Lys	Asn	Thr	Ile	Pro	Met	Val	Thr	Pro	Pro	290	295	300	
Pro	Pro	Pro	Val	Phe	Ser	Leu	Leu	Lys	Ile	Arg	Gln	Arg	Ile	Val	Cys	305	310	315	320
Leu	Val	Leu	Asp	Lys	Ser	Gly	Ser	Met	Gly	Gly	Lys	Asp	Arg	Leu	Asn	325	330	335	
Arg	Met	Asn	Gln	Ala	Ala	Lys	His	Phe	Leu	Leu	Gln	Thr	Val	Glu	Asn	340	345	350	
Gly	Ser	Trp	Val	Gly	Met	Val	His	Phe	Asp	Ser	Thr	Ala	Thr	Ile	Val	355	360	365	
Asn	Lys	Leu	Ile	Gln	Ile	Lys	Ser	Ser	Asp	Glu	Arg	Asn	Thr	Leu	Met	370	375	380	
Ala	Gly	Leu	Pro	Thr	Tyr	Pro	Leu	Gly	Gly	Thr	Ser	Ile	Cys	Ser	Gly	385	390	395	400
Ile	Lys	Tyr	Ala	Phe	Gln	Val	Ile	Gly	Glu	Leu	His	Ser	Gln	Leu	Asp	405	410	415	
Gly	Ser	Glu	Val	Leu	Leu	Leu	Thr	Asp	Gly	Glu	Asp	Asn	Thr	Ala	Ser	420	425	430	
Ser	Cys	Ile	Asp	Glu	Val	Lys	Gln	Ser	Gly	Ala	Ile	Val	His	Phe	Ile	435	440	445	
Ala	Leu	Gly	Arg	Ala	Ala	Asp	Glu	Ala	Val	Ile	Glu	Met	Ser	Lys	Ile	450	455	460	
Thr	Gly	Gly	Ser	His	Phe	Tyr	Val	Ser	Asp	Glu	Ala	Gln	Asn	Asn	Gly	465	470	475	480
Leu	Ile	Asp	Ala	Phe	Gly	Ala	Leu	Thr	Ser	Gly	Asn	Thr	Asp	Leu	Ser	485	490	495	
Gln	Lys	Ser	Leu	Gln	Leu	Glu	Ser	Lys	Gly	Leu	Thr	Leu	Asn	Ser	Asn	500	505	510	

Ala Trp Met Asn Asp Thr Val Ile Ile Asp Ser Thr Val Gly Lys Asp
 515 520 525
 Thr Phe Phe Leu Ile Thr Trp Asn Ser Leu Pro Pro Ser Ile Ser Leu
 530 535 540
 Trp Asp Pro Ser Gly Thr Ile Met Glu Asn Phe Thr Val Asp Ala Thr
 545 550 555 560
 Ser Lys Met Ala Tyr Leu Ser Ile Pro Gly Thr Ala Lys Val Gly Thr
 565 570 575
 Trp Ala Tyr Asn Leu Gln Ala Lys Ala Asn Pro Glu Thr Leu Thr Ile
 580 585 590
 Thr Val Thr Ser Arg Ala Ala Asn Ser Ser Val Pro Pro Ile Thr Val
 595 600 605
 Asn Ala Lys Met Asn Lys Asp Val Asn Ser Phe Pro Ser Pro Met Ile
 610 615 620
 Val Tyr Ala Glu Ile Leu Gln Gly Tyr Val Pro Val Leu Gly Ala Asn
 625 630 635 640
 Val Thr Ala Phe Ile Glu Ser Gln Asn Gly His Thr Glu Val Leu Glu
 645 650 655
 Leu Leu Asp Asn Gly Ala Gly Ala Asp Ser Phe Lys Asn Asp Gly Val
 660 665 670
 Tyr Ser Arg Tyr Phe Thr Ala Tyr Thr Glu Asn Gly Arg Tyr Ser Leu
 675 680 685
 Lys Val Arg Ala His Gly Gly Ala Asn Thr Ala Arg Leu Lys Leu Arg
 690 695 700
 Pro Pro Leu Asn Arg Ala Ala Tyr Ile Pro Gly Trp Val Val Asn Gly
 705 710 715 720
 Glu Ile Glu Ala Asn Pro Pro Arg Pro Glu Ile Asp Glu Asp Thr Gln
 725 730 735
 Thr Thr Leu Glu Asp Phe Ser Arg Thr Ala Ser Gly Gly Ala Phe Val
 740 745 750
 Val Ser Gln Val Pro Ser Leu Pro Leu Pro Asp Gln Tyr Pro Pro Ser
 755 760 765
 Gln Ile Thr Asp Leu Asp Ala Thr Val His Glu Asp Lys Ile Ile Leu
 770 775 780
 Thr Trp Thr Ala Pro Gly Asp Asn Phe Asp Val Gly Lys Val Gln Arg
 785 790 795 800
 Tyr Ile Ile Arg Ile Ser Ala Ser Ile Leu Asp Leu Arg Asp Ser Phe
 805 810 815
 Asp Asp Ala Leu Gln Val Asn Thr Thr Asp Leu Ser Pro Lys Glu Ala
 820 825 830
 Asn Ser Lys Glu Ser Phe Ala Phe Lys Pro Glu Asn Ile Ser Glu Glu
 835 840 845
 Asn Ala Thr His Ile Phe Ile Ala Ile Lys Ser Ile Asp Lys Ser Asn
 850 855 860
 Leu Thr Ser Lys Val Ser Asn Ile Ala Gln Val Thr Leu Phe Ile Pro
 865 870 875 880
 Gln Ala Asn Pro Asp Asp Ile Asp Pro Thr Pro Thr Pro Thr Pro Thr
 885 890 895
 Pro Thr Pro Asp Lys Ser His Asn Ser Gly Val Asn Ile Ser Thr Leu
 900 905 910
 Val Leu Ser Val Ile Gly Ser Val Val Ile Val Asn Phe Ile Leu Ser
 915 920 925
 Thr Thr Ile
 930 931

<210> 2344
 <211> 137
 <212> PRT
 <213> Homo sapiens

<400> 2344

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Ile Asn Ser Ser Pro Arg Thr Gly Arg Asp His Gln Glu Leu Asn Leu
 1      5      10      15
His Thr Glu Arg Asp Ser Arg Ser Gln Arg Ala Val Leu Lys Ile Pro
      20      25      30
Arg Gln Asn Pro Gly Ile Phe Tyr Trp Ile Phe Leu Pro Ser Arg Ser
      35      40      45
His Ser Ala Ser His Gly Ser Arg Gln Arg Gln Val Ser Cys Gln Gly
      50      55      60
Thr Gln Asp Glu Ile Leu Lys Met Arg Asn Thr Phe Ala Glu Leu Lys
      65      70      75      80
Asn Ser Leu Glu Ala Leu Ser Ser Arg Met Asp Gln Ala Glu Glu Arg
      85      90      95
Ile Gly Thr Gln Ala Gly Val Gln Trp Arg Asp His Gly Ser Leu Gln
      100      105      110
Pro Gln Pro Pro Glu Phe Lys Gln Cys Phe His Leu Ser Leu Pro Ser
      115      120      125
Ser Trp Asp Tyr Arg Ala Cys Leu Ser
      130      135      137

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<210> 2345

<211> 1076

<212> PRT

<213> Homo sapiens

<400> 2345

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Ala Trp Arg Lys Ser Ser Val Val Pro Pro Arg Gly Thr Arg Arg Gly
 1      5      10      15
Glu Lys Ser Asp Gln Asp Lys Ser Gly Gln Lys Asn Lys Arg Asp Phe
      20      25      30
Leu Ser Met Lys Gln Ser Pro Ala Leu Ala Pro Glu Glu Arg Cys Arg
      35      40      45
Arg Ala Gly Ser Pro Lys Pro Val Leu Arg Ala Asp Asp Asn Asn Met
      50      55      60
Gly Asn Gly Cys Ser Gln Lys Leu Ala Thr Ala Asn Leu Leu Arg Phe
      65      70      75      80
Leu Leu Leu Val Leu Ile Pro Cys Ile Cys Ala Leu Val Leu Leu Leu
      85      90      95
Glu Ile Leu Leu Ser Tyr Val Gly Thr Leu Gln Lys Val Tyr Phe Lys
      100      105      110
Ser Asn Gly Ser Glu Pro Leu Val Thr Asp Gly Glu Ile Gln Gly Ser
      115      120      125
Asp Val Ile Leu Thr Asn Thr Ile Tyr Asn Gln Ser Thr Val Val Ser
      130      135      140
Thr Ala His Pro Asp Gln His Val Pro Ala Trp Thr Thr Asp Ala Ser
      145      150      155      160
Leu Pro Gly Asp Gln Ser His Arg Asn Thr Ser Ala Cys Met Asn Ile
      165      170      175
Thr His Ser Gln Cys Gln Met Leu Pro Tyr His Ala Thr Leu Thr Pro
      180      185      190
Leu Leu Ser Val Val Arg Asn Met Glu Met Glu Lys Phe Leu Lys Phe
      195      200      205
Phe Thr Tyr Leu His Arg Leu Ser Cys Tyr Gln His Ile Met Leu Phe
      210      215      220
Gly Cys Thr Leu Ala Phe Pro Glu Cys Ile Ile Asp Gly Asp Asp Ser
      225      230      235      240
His Gly Leu Leu Pro Cys Arg Ser Phe Cys Glu Ala Ala Lys Glu Gly
      245      250      255
Cys Glu Ser Val Leu Gly Met Val Asn Tyr Ser Trp Pro Asp Phe Leu
      260      265      270
Arg Cys Ser Gln Phe Arg Asn Gln Thr Glu Ser Ser Asn Val Ser Arg
      275      280      285

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Ile Cys Phe Ser Pro Gln Gln Glu Asn Gly Lys Gln Leu Leu Cys Gly
290          295          300
Arg Gly Glu Asn Phe Leu Cys Ala Ser Gly Ile Cys Ile Pro Gly Lys
305          310          315          320
Leu Gln Cys Asn Gly Tyr Asn Asp Cys Asp Asp Trp Ser Asp Glu Ala
          325          330          335
His Cys Asn Cys Ser Glu Asn Leu Phe His Cys His Thr Gly Lys Cys
          340          345          350
Leu Asn Tyr Ser Leu Val Cys Asp Gly Tyr Asp Asp Cys Gly Asp Leu
          355          360          365
Ser Asp Glu Gln Asn Cys Asp Cys Asn Pro Thr Thr Glu His Arg Cys
          370          375          380
Gly Asp Gly Arg Cys Ile Ala Met Glu Trp Val Cys Asp Gly Asp His
385          390          395          400
Asp Cys Val Asp Lys Ser Asp Glu Val Asn Cys Ser Cys His Ser Gln
          405          410          415
Gly Leu Val Glu Cys Arg Asn Gly Gln Cys Ile Pro Ser Thr Phe Gln
          420          425          430
Cys Asp Gly Asp Glu Asp Cys Lys Asp Gly Ser Asp Glu Glu Asn Cys
          435          440          445
Ser Val Ile Gln Thr Ser Cys Gln Glu Gly Asp Gln Arg Cys Leu Tyr
          450          455          460
Asn Pro Cys Leu Asp Ser Cys Gly Gly Ser Ser Leu Cys Asp Pro Asn
465          470          475          480
Asn Ser Leu Asn Asn Cys Ser Gln Cys Glu Pro Ile Thr Leu Glu Leu
          485          490          495
Cys Met Asn Leu Pro Tyr Asn Ser Thr Ser Tyr Pro Asn Tyr Phe Gly
          500          505          510
His Arg Thr Gln Lys Glu Ala Ser Ile Ser Trp Glu Ser Ser Leu Phe
          515          520          525
Pro Ala Leu Val Gln Thr Asn Cys Tyr Lys Tyr Leu Met Phe Phe Ser
          530          535          540
Cys Thr Ile Leu Val Pro Lys Cys Asp Val Asn Thr Gly Glu His Ile
545          550          555          560
Pro Pro Cys Arg Ala Leu Cys Glu His Ser Lys Glu Arg Cys Glu Ser
          565          570          575
Val Leu Gly Ile Val Gly Leu Gln Trp Pro Glu Asp Thr Asp Cys Ser
          580          585          590
Gln Phe Pro Glu Glu Asn Ser Asp Asn Gln Thr Cys Leu Met Pro Asp
          595          600          605
Glu Tyr Val Glu Glu Cys Ser Pro Ser His Phe Lys Cys Arg Ser Gly
          610          615          620
Gln Cys Val Leu Ala Ser Arg Arg Cys Asp Gly Gln Ala Asp Cys Asp
625          630          635          640
Asp Asp Ser Asp Glu Glu Asn Cys Gly Cys Lys Glu Arg Asp Leu Trp
          645          650          655
Glu Cys Pro Ser Asn Lys Gln Cys Leu Lys His Thr Val Ile Cys Asp
          660          665          670
Gly Phe Pro Asp Cys Pro Asp Tyr Met Asp Glu Lys Asn Cys Ser Phe
          675          680          685
Cys Gln Asp Asp Glu Leu Glu Cys Ala Asn His Ala Cys Val Ser Arg
          690          695          700
Asp Leu Trp Cys Asp Gly Glu Ala Asp Cys Ser Asp Ser Ser Asp Glu
705          710          715          720
Trp Asp Cys Val Thr Leu Ser Ile Asn Val Asn Ser Ser Ser Phe Leu
          725          730          735
Met Val His Arg Ala Ala Thr Glu His His Val Cys Ala Asp Gly Trp
          740          745          750
Gln Glu Ile Leu Ser Gln Leu Ala Cys Lys Gln Met Gly Leu Gly Glu
          755          760          765
Pro Ser Val Thr Lys Leu Ile Gln Glu Gln Glu Lys Glu Pro Arg Trp
          770          775          780
Leu Thr Leu His Ser Asn Trp Glu Ser Leu Asn Gly Thr Thr Leu His
785          790          795          800

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Glu Leu Leu Val Asn Gly Gln Ser Cys Glu Ser Arg Ser Lys Ile Ser
 805 810 815
 Leu Leu Cys Thr Lys Gln Asp Cys Gly Arg Arg Pro Ala Ala Arg Met
 820 825 830
 Asn Lys Arg Ile Leu Gly Gly Arg Thr Ser Arg Pro Gly Arg Trp Pro
 835 840 845
 Trp Gln Cys Ser Leu Gln Ser Glu Pro Ser Gly His Ile Cys Gly Cys
 850 855 860
 Val Leu Ile Ala Lys Lys Trp Val Leu Thr Val Ala His Cys Phe Glu
 865 870 875 880
 Gly Arg Glu Asn Ala Val Trp Lys Val Val Leu Gly Ile Asn Asn
 885 890 895
 Leu Asp His Pro Ser Val Phe Met Gln Thr Arg Phe Val Lys Thr Ile
 900 905 910
 Ile Leu His Pro Arg Tyr Ser Arg Ala Val Val Asp Tyr Asp Ile Ser
 915 920 925
 Ile Val Glu Leu Ser Glu Asp Ile Ser Glu Thr Gly Tyr Val Arg Pro
 930 935 940
 Val Cys Leu Pro Asn Pro Glu Gln Trp Leu Glu Pro Asp Thr Tyr Cys
 945 950 955 960
 Tyr Ile Thr Gly Trp Gly His Met Gly Asn Lys Met Pro Phe Lys Leu
 965 970 975
 Gln Glu Gly Glu Val Arg Ile Ile Ser Leu Glu His Cys Gln Ser Tyr
 980 985 990
 Phe Asp Met Lys Thr Ile Thr Thr Arg Met Ile Cys Ala Gly Tyr Glu
 995 1000 1005
 Ser Gly Thr Val Asp Ser Cys Met Gly Asp Ser Gly Gly Pro Leu Val
 1010 1015 1020
 Cys Glu Lys Pro Gly Gly Arg Trp Thr Leu Phe Gly Leu Thr Ser Trp
 1025 1030 1035 1040
 Gly Ser Val Cys Phe Ser Lys Val Leu Gly Pro Gly Val Tyr Ser Asn
 1045 1050 1055
 Val Ser Tyr Phe Val Glu Trp Ile Lys Arg Gln Ile Tyr Ile Gln Thr
 1060 1065 1070
 Phe Leu Leu Asn
 10751076

<210> 2346
 <211> 962
 <212> PRT
 <213> Homo sapiens

<400> 2346
 Lys Val Ile Leu Ser Ser Glu Met Ser Lys Thr Asn Lys Ser Lys Ser
 1 5 10 15
 Gly Ser Arg Ser Ser Arg Ser Arg Ser Ala Ser Arg Ser Arg Ser Arg
 20 25 30
 Ser Phe Ser Lys Ser Arg Ser Arg Ser Arg Ser Leu Ser Arg Ser Arg
 35 40 45
 Lys Arg Arg Leu Ser Ser Arg Ser Arg Ser Arg Ser Tyr Ser Pro Ala
 50 55 60
 His Asn Arg Glu Arg Asn His Pro Arg Val Tyr Gln Asn Arg Asp Phe
 65 70 75 80
 Arg Gly His Asn Arg Gly Tyr Arg Arg Pro Tyr Tyr Phe Arg Gly Arg
 85 90 95
 Asn Arg Gly Phe Tyr Pro Trp Gly Gln Tyr Asn Arg Gly Gly Tyr Gly
 100 105 110
 Asn Tyr Arg Ser Asn Trp Gln Asn Tyr Arg Gln Ala Tyr Ser Pro Arg
 115 120 125
 Arg Gly Arg Ser Arg Ser Arg Ser Pro Lys Arg Arg Ser Pro Ser Pro
 130 135 140

Arg Ser Arg Ser His Ser Arg Asn Ser Asp Lys Ser Ser Ser Asp Arg
 145 150 155 160
 Ser Arg Arg Ser Ser Ser Ser Arg Ser Ser Ser Asn His Ser Arg Val
 165 170 175
 Glu Ser Ser Lys Arg Lys Ser Ala Lys Glu Lys Lys Ser Ser Ser Lys
 180 185 190
 Asp Ser Arg Pro Ser Gln Ala Ala Gly Asp Asn Gln Gly Asp Glu Val
 195 200 205
 Lys Glu Gln Thr Phe Ser Gly Gly Thr Ser Gln Asp Thr Lys Ala Ser
 210 215 220
 Glu Ser Ser Lys Pro Trp Pro Asp Ala Thr Tyr Gly Thr Gly Ser Ala
 225 230 235 240
 Ser Arg Ala Ser Ala Val Ser Glu Leu Ser Pro Arg Glu Arg Ser Pro
 245 250 255
 Ala Leu Lys Ser Pro Leu Gln Ser Val Val Val Arg Arg Arg Ser Pro
 260 265 270
 Arg Pro Ser Pro Val Pro Lys Pro Ser Pro Pro Leu Ser Ser Thr Ser
 275 280 285
 Gln Met Gly Ser Thr Leu Pro Ser Gly Ala Gly Tyr Gln Ser Gly Thr
 290 295 300
 His Gln Gly Gln Phe Asp His Gly Ser Gly Ser Leu Ser Pro Ser Lys
 305 310 315 320
 Lys Ser Pro Val Gly Lys Ser Pro Pro Ser Thr Gly Ser Thr Tyr Gly
 325 330 335
 Ser Ser Gln Lys Glu Glu Ser Ala Ala Ser Gly Gly Ala Ala Tyr Thr
 340 345 350
 Lys Arg Tyr Leu Glu Glu Gln Lys Thr Glu Asn Gly Lys Asp Lys Glu
 355 360 365
 Gln Lys Gln Thr Asn Thr Asp Lys Glu Lys Ile Lys Glu Lys Gly Ser
 370 375 380
 Phe Ser Asp Thr Gly Leu Gly Asp Gly Lys Met Lys Ser Asp Ser Phe
 385 390 395 400
 Ala Pro Lys Thr Asp Ser Glu Lys Pro Phe Arg Gly Ser Gln Ser Pro
 405 410 415
 Lys Arg Tyr Lys Leu Arg Asp Asp Phe Glu Lys Lys Met Ala Asp Phe
 420 425 430
 His Lys Glu Glu Met Asp Asp Gln Asp Lys Asp Lys Ala Lys Gly Arg
 435 440 445
 Lys Glu Ser Glu Phe Asp Asp Glu Pro Lys Phe Met Ser Lys Val Ile
 450 455 460
 Gly Ala Asn Lys Asn Gln Glu Glu Lys Ser Gly Lys Trp Glu Gly
 465 470 475 480
 Leu Val Tyr Ala Pro Pro Gly Lys Glu Lys Gln Arg Lys Thr Glu Glu
 485 490 495
 Leu Glu Glu Glu Ser Phe Pro Glu Arg Ser Lys Lys Glu Asp Arg Gly
 500 505 510
 Lys Arg Ser Glu Gly Gly His Arg Gly Phe Val Pro Glu Lys Asn Phe
 515 520 525
 Arg Val Thr Ala Tyr Lys Ala Val Gln Glu Lys Ser Ser Ser Pro Pro
 530 535 540
 Pro Arg Lys Thr Ser Glu Ser Arg Asp Lys Leu Gly Ala Lys Gly Asp
 545 550 555 560
 Phe Pro Thr Gly Lys Ser Ser Phe Ser Ile Thr Arg Glu Ala Gln Val
 565 570 575
 Asn Val Arg Met Asp Ser Phe Asp Glu Asp Leu Ala Arg Pro Ser Gly
 580 585 590
 Leu Leu Ala Gln Glu Arg Lys Leu Cys Arg Asp Leu Val His Ser Asn
 595 600 605
 Lys Lys Glu Gln Glu Phe Arg Ser Ile Phe Gln His Ile Gln Ser Ala
 610 615 620
 Gln Ser Gln Arg Ser Pro Ser Glu Leu Phe Ala Gln His Ile Val Thr
 625 630 635 640
 Ile Val His His Val Lys Glu His His Phe Gly Ser Ser Gly Met Thr
 645 650 655

Leu His Glu Arg Phe Thr Lys Tyr Leu Lys Arg Gly Thr Glu Gln Glu
 660 665 670
 Ala Ala Lys Asn Lys Lys Ser Pro Glu Ile His Arg Arg Ile Asp Ile
 675 680 685
 Ser Pro Ser Thr Phe Arg Lys His Gly Leu Ala His Asp Glu Met Lys
 690 695 700
 Ser Pro Arg Glu Pro Gly Tyr Lys Ala Glu Gly Lys Tyr Lys Asp Asp
 705 710 715 720
 Pro Val Asp Leu Arg Leu Asp Ile Glu Arg Arg Lys Lys His Lys Glu
 725 730 735
 Arg Asp Leu Lys Arg Gly Lys Ser Arg Glu Ser Val Asp Ser Arg Asp
 740 745 750
 Ser Ser His Ser Arg Glu Arg Ser Ala Glu Lys Thr Glu Lys Thr His
 755 760 765
 Lys Gly Ser Lys Lys Gln Lys Lys His Arg Arg Ala Arg Asp Arg Ser
 770 775 780
 Arg Ser Ser Ser Ser Ser Ser Gln Ser Ser His Ser Tyr Lys Ala Glu
 785 790 795 800
 Glu Tyr Thr Glu Glu Thr Glu Glu Arg Glu Glu Ser Thr Thr Gly Phe
 805 810 815
 Asp Lys Ser Arg Leu Gly Thr Lys Asp Phe Val Gly Pro Ser Glu Arg
 820 825 830
 Gly Gly Gly Arg Ala Arg Gly Thr Phe Gln Phe Arg Ala Arg Gly Arg
 835 840 845
 Gly Trp Gly Arg Gly Asn Tyr Ser Gly Asn Asn Asn Asn Asn Ser Asn
 850 855 860
 Asn Asp Phe Gln Lys Arg Asn Arg Glu Glu Glu Trp Asp Pro Glu Tyr
 865 870 875 880
 Thr Pro Lys Ser Lys Lys Tyr Tyr Leu His Asp Asp Arg Glu Gly Glu
 885 890 895
 Gly Ser Asp Lys Trp Val Ser Arg Gly Arg Gly Arg Gly Ala Phe Pro
 900 905 910
 Arg Gly Arg Gly Arg Phe Met Phe Arg Lys Ser Ser Thr Ser Pro Lys
 915 920 925
 Trp Ala His Asp Lys Phe Ser Gly Glu Glu Gly Glu Ile Glu Asp Asp
 930 935 940
 Glu Ser Gly Thr Glu Asn Arg Glu Glu Lys Asp Asn Ile Gln Pro Thr
 945 950 955 960
 Thr Glu
 962

<210> 2347

<211> 117

<212> PRT

<213> Homo sapiens

<400> 2347

Cys Pro Ala Leu Gly Gly Arg Gln Asp Leu Gln Gly Thr Arg Leu Leu
 1 5 10 15
 Trp Ala His Asp Ser Gly Val Gly Gly Gln Lys Ala Lys Ser Lys Gln
 20 25 30
 Glu Asn Leu Glu Ser Leu Glu Ala Thr Gly Arg Glu Glu Glu Gly Gly
 35 40 45
 Gln Gly Pro Pro Val Thr Thr Lys Gly Val Leu Leu Ala Leu Leu Met
 50 55 60
 Ala Gly Leu Ala Leu Gln Pro Gly Thr Ala Leu Leu Cys Tyr Ser Cys
 65 70 75 80
 Lys Ala Gln Val Ser Asn Glu Asp Cys Leu Gln Val Glu Asn Cys Thr
 85 90 95
 Gln Leu Gly Glu Gln Cys Trp Thr Ala Arg Ile Arg Glu Trp Gly Asp
 100 105 110

Asp Ser Arg Gln Ala
115 117

<210> 2348
<211> 132
<212> PRT
<213> Homo sapiens

<400> 2348
Asn Pro Pro Ser Ala Cys Thr Pro Gly Ser Cys Asp Ser Cys Ser Gly
1 5 10 15
Arg Gly Arg Asp Leu Ala Phe Asp Ser Val Trp Ser Thr Asn Asn Met
20 25 30
Ser Asp Pro Arg Arg Pro Asn Lys Val Leu Arg Tyr Lys Pro Pro Pro
35 40 45
Ser Glu Cys Asn Pro Ala Leu Asp Asp Pro Thr Pro Asp Tyr Met Asn
50 55 60
Leu Leu Gly Met Ile Phe Ser Met Cys Gly Leu Met Leu Lys Leu Lys
65 70 75 80
Trp Cys Ala Trp Val Ala Val Tyr Cys Ser Phe Ile Ser Phe Ala Asn
85 90 95
Ser Arg Ser Ser Glu Asp Thr Lys Gln Met Met Ser Ser Phe Met Leu
100 105 110
Ser Ile Ser Ala Val Val Met Ser Tyr Leu Gln Asn Pro Gln Pro Met
115 120 125
Thr Pro Pro Trp
130 132

<210> 2349
<211> 344
<212> PRT
<213> Homo sapiens

<400> 2349
Ala Ser Ala Ser His Ile Thr Ser Gly His Leu Arg Cys Phe Pro Gly
1 5 10 15
Ser Glu Gly Val Gly Thr Met Ala Arg Cys Phe Ser Leu Val Leu Leu
20 25 30
Leu Thr Ser Ile Trp Thr Thr Arg Leu Leu Val Gln Gly Ser Leu Arg
35 40 45
Ala Glu Glu Leu Ser Ile Gln Val Ser Cys Arg Ile Met Gly Ile Thr
50 55 60
Leu Val Ser Lys Lys Ala Asn Gln Gln Leu Asn Phe Thr Glu Ala Lys
65 70 75 80
Glu Ala Cys Arg Leu Leu Gly Leu Ser Leu Ala Gly Lys Asp Gln Val
85 90 95
Glu Thr Ala Leu Lys Ala Ser Phe Glu Thr Cys Ser Tyr Gly Trp Val
100 105 110
Gly Asp Gly Phe Val Val Ile Ser Arg Ile Ser Pro Asn Pro Lys Cys
115 120 125
Gly Lys Asn Gly Val Gly Val Leu Ile Trp Lys Val Pro Val Ser Arg
130 135 140
Gln Phe Ala Ala Tyr Cys Tyr Asn Ser Ser Asp Thr Trp Thr Asn Ser
145 150 155 160
Cys Ile Pro Glu Ile Ile Thr Thr Lys Asp Pro Ile Phe Asn Thr Gln
165 170 175
Thr Ala Thr Gln Thr Thr Glu Phe Ile Val Ser Asp Ser Thr Tyr Ser
180 185 190


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Val Ala Ser Pro Tyr Ser Thr Ile Pro Ala Pro Thr Thr Thr Pro Pro
      195      200      205
Ala Pro Ala Ser Thr Ser Ile Pro Arg Arg Lys Lys Leu Ile Cys Val
      210      215      220
Thr Glu Val Phe Met Glu Thr Ser Thr Met Ser Thr Glu Thr Glu Pro
      225      230      235      240
Phe Val Glu Asn Lys Ala Ala Phe Lys Asn Glu Ala Ala Gly Phe Gly
      245      250      255
Gly Val Pro Thr Ala Leu Leu Val Leu Ala Leu Leu Phe Phe Gly Ala
      260      265      270
Ala Ala Gly Leu Gly Phe Cys Tyr Val Lys Arg Tyr Val Lys Ala Phe
      275      280      285
Pro Phe Thr Asn Lys Asn Gln Lys Glu Met Ile Glu Thr Lys Val
      290      295      300
Val Lys Glu Glu Lys Ala Asn Asp Ser Asn Pro Asn Glu Glu Ser Lys
      305      310      315      320
Lys Thr Asp Lys Asn Pro Glu Glu Ser Lys Ser Pro Ser Lys Thr Thr
      325      330      335
Met Arg Cys Leu Glu Ala Glu Val
      340      344

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<210> 2350
<211> 258
<212> PRT
<213> Homo sapiens

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<400> 2350
Lys Glu Arg Cys Gln Phe Val Val Lys Pro Met Leu Ser Thr Val Gly
  1      5      10      15
Ser Phe Leu Gln Asp Leu Gln Asn Glu Asp Lys Gly Ile Lys Thr Ala
      20      25      30
Ala Ile Phe Thr Ala Asp Gly Asn Met Ile Ser Ala Ser Thr Leu Met
      35      40      45
Asp Ile Leu Leu Met Asn Asp Phe Lys Leu Val Ile Asn Lys Ile Ala
      50      55      60
Tyr Asp Val Gln Cys Pro Lys Arg Glu Lys Pro Ser Asn Glu His Thr
      65      70      75      80
Ala Glu Met Glu His Met Lys Ser Leu Val His Arg Leu Phe Thr Ile
      85      90      95
Leu His Leu Glu Ser Gln Lys Lys Arg Glu His His Leu Leu Glu
      100      105      110
Lys Ile Asp His Leu Lys Glu Gln Leu Gln Pro Leu Glu Gln Val Lys
      115      120      125
Ala Gly Ile Glu Ala His Ser Glu Ala Lys Thr Ser Gly Leu Leu Trp
      130      135      140
Ala Gly Leu Ala Leu Leu Ser Ile Gln Gly Gly Ala Leu Ala Trp Leu
      145      150      155      160
Thr Trp Trp Val Tyr Ser Trp Asp Ile Met Glu Pro Val Thr Tyr Phe
      165      170      175
Ile Thr Phe Ala Asn Ser Met Val Phe Phe Ala Tyr Phe Ile Val Thr
      180      185      190
Arg Gln Asp Tyr Thr Tyr Ser Ala Val Lys Ser Arg Gln Phe Leu Gln
      195      200      205
Phe Phe His Lys Lys Ser Lys Gln Gln His Phe Asp Val Gln Gln Tyr
      210      215      220
Asn Lys Leu Lys Glu Asp Leu Ala Lys Ala Lys Glu Ser Leu Lys Gln
      225      230      235      240
Ala Arg His Ser Leu Cys Leu Gln Met Gln Val Glu Glu Leu Asn Glu
      245      250      255
Lys Asn
      258

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<210> 2351
 <211> 378
 <212> PRT
 <213> Homo sapiens

<400> 2351
 Val Gly Phe Trp Glu Arg Pro Leu Arg Ser Ser Arg Trp Phe Arg Arg
 1 5 10 15
 Ser Leu Arg Arg Trp Glu Met Leu Ala Arg Ala Ala Arg Gly Thr Gly
 20 25 30
 Ala Leu Leu Leu Arg Gly Ser Leu Leu Ala Ser Gly Arg Ala Pro Arg
 35 40 45
 Arg Ala Ser Ser Gly Leu Pro Arg Asn Thr Val Val Leu Phe Val Pro
 50 55 60
 Gln Gln Glu Ala Trp Val Val Glu Arg Met Gly Arg Phe His Arg Ile
 65 70 75 80
 Leu Glu Pro Gly Leu Asn Ile Leu Ile Pro Val Leu Asp Arg Ile Arg
 85 90 95
 Tyr Val Gln Ser Leu Lys Glu Ile Val Ile Asn Val Pro Glu Gln Ser
 100 105 110
 Ala Val Thr Leu Asp Asn Val Thr Leu Gln Ile Asp Gly Val Leu Tyr
 115 120 125
 Leu Arg Ile Met Asp Pro Tyr Lys Ala Ser Tyr Gly Val Glu Asp Pro
 130 135 140
 Glu Tyr Ala Val Thr Gln Leu Ala Gln Thr Thr Met Arg Ser Glu Leu
 145 150 155 160
 Gly Lys Leu Ser Leu Asp Lys Val Phe Arg Glu Arg Glu Ser Leu Asn
 165 170 175
 Ala Ser Ile Val Asp Ala Ile Asn Gln Ala Ala Asp Cys Trp Gly Ile
 180 185 190
 Arg Cys Leu Arg Tyr Glu Ile Lys Asp Ile His Val Pro Pro Arg Val
 195 200 205
 Lys Glu Ser Met Gln Met Gln Val Glu Ala Glu Arg Arg Lys Arg Ala
 210 215 220
 Thr Val Leu Glu Ser Glu Gly Thr Arg Glu Ser Ala Ile Asn Val Ala
 225 230 235 240
 Glu Gly Lys Lys Gln Ala Gln Ile Leu Ala Ser Glu Ala Glu Lys Ala
 245 250 255
 Glu Gln Ile Asn Gln Ala Ala Gly Glu Ala Ser Ala Val Leu Ala Lys
 260 265 270
 Ala Lys Ala Lys Ala Glu Ala Ile Arg Ile Leu Ala Ala Ala Leu Thr
 275 280 285
 Gln His Asn Gly Asp Ala Ala Ala Ser Leu Thr Val Ala Glu Gln Tyr
 290 295 300
 Val Ser Ala Phe Ser Lys Leu Ala Lys Asp Ser Asn Thr Ile Leu Leu
 305 310 315 320
 Pro Ser Asn Pro Gly Asp Val Thr Ser Met Val Ala Gln Ala Met Gly
 325 330 335
 Val Tyr Gly Ala Leu Thr Lys Ala Pro Val Pro Gly Thr Pro Asp Ser
 340 345 350
 Leu Ser Ser Gly Ser Ser Arg Asp Val Gln Gly Thr Asp Ala Ser Leu
 355 360 365
 Asp Glu Glu Leu Asp Arg Val Lys Met Ser
 370 375 378

<210> 2352
 <211> 269
 <212> PRT

<213> Homo sapiens

<400> 2352
 Asn Arg Glu Asn Leu Leu Glu Ser Arg Met Met Asp Pro Cys Ser Val
 1 5 10 15
 Gly Val Gln Leu Arg Thr Thr Asn Glu Cys His Lys Thr Tyr Tyr Thr
 20 25 30
 Arg His Thr Gly Phe Lys Thr Leu Gln Glu Leu Ser Ser Asn Asp Met
 35 40 45
 Leu Leu Leu Gln Leu Arg Thr Gly Met Thr Leu Ser Gly Asn Asn Thr
 50 55 60
 Ile Cys Phe His His Val Lys Ile Tyr Ile Asp Arg Phe Glu Asp Leu
 65 70 75 80
 Gln Lys Ser Cys Cys Asp Pro Phe Asn Ile His Lys Lys Leu Ala Lys
 85 90 95
 Lys Asn Leu His Val Ile Asp Leu Asp Asp Ala Thr Phe Leu Ser Ala
 100 105 110
 Lys Phe Gly Arg Gln Leu Val Pro Gly Trp Lys Leu Cys Pro Lys Cys
 115 120 125
 Thr Gln Ile Ile Asn Gly Ser Val Asp Val Asp Thr Glu Asp Arg Gln
 130 135 140
 Lys Arg Lys Pro Glu Ser Asp Gly Arg Thr Ala Lys Ala Leu Arg Ser
 145 150 155 160
 Leu Gln Phe Thr Asn Pro Gly Arg Gln Thr Glu Phe Ala Pro Glu Thr
 165 170 175
 Gly Lys Arg Glu Lys Arg Arg Leu Thr Lys Asn Ala Thr Ala Gly Ser
 180 185 190
 Asp Arg Gln Val Ile Pro Ala Lys Ser Lys Val Tyr Asp Ser Gln Gly
 195 200 205
 Leu Leu Ile Phe Ser Gly Met Asp Leu Cys Asp Cys Leu Asp Glu Asp
 210 215 220
 Cys Leu Gly Cys Phe Tyr Ala Cys Pro Ala Cys Gly Ser Thr Lys Cys
 225 230 235 240
 Gly Ala Glu Cys Arg Cys Asp Arg Lys Trp Leu Tyr Glu Gln Ile Glu
 245 250 255
 Ile Glu Gly Gly Glu Ile Ile His Asn Lys His Ala Gly
 260 265 269

<210> 2353

<211> 470

<212> PRT

<213> Homo sapiens

<400> 2353
 Thr Glu Trp Gly Leu Ser Gly Ser Cys Pro Gly Cys Ser Pro Leu Glu
 1 5 10 15
 Pro Gly Ser Arg Gly Arg Gly Ala Ala Ala Trp Arg Ile Leu Arg Cys
 20 25 30
 Arg Arg Leu Pro Glu Pro Ser Pro Phe Leu Thr Gln Pro Asn Leu Ala
 35 40 45
 Gln Ser Gln Pro Pro Ala Pro Val Pro Val Thr Asp Pro Ser Val Thr
 50 55 60
 Met His Pro Ala Val Phe Leu Ser Leu Pro Asp Leu Arg Cys Ser Leu
 65 70 75 80
 Leu Leu Leu Val Thr Trp Val Phe Thr Pro Val Thr Thr Glu Ile Thr
 85 90 95
 Ser Leu Asp Thr Glu Asn Ile Asp Glu Ile Leu Asn Asn Ala Asp Val
 100 105 110
 Ala Leu Val Asn Phe Tyr Ala Asp Trp Cys Arg Phe Ser Gln Met Leu
 115 120 125

His Pro Ile Phe Glu Glu Ala Ser Asp Val Ile Lys Glu Glu Phe Pro
 130 135 140
 Asn Glu Asn Gln Val Val Phe Ala Arg Val Asp Cys Asp Gln His Ser
 145 150 155 160
 Asp Ile Ala Gln Arg Tyr Arg Ile Ser Lys Tyr Pro Thr Leu Lys Leu
 165 170 175
 Phe Arg Asn Gly Met Met Met Lys Arg Glu Tyr Arg Gly Gln Arg Ser
 180 185 190
 Val Lys Ala Leu Ala Asp Tyr Ile Arg Gln Gln Lys Ser Asp Pro Ile
 195 200 205
 Gln Glu Ile Arg Asp Leu Ala Glu Ile Thr Thr Leu Asp Arg Ser Lys
 210 215 220
 Arg Asn Ile Ile Gly Tyr Phe Glu Gln Lys Asp Ser Asp Asn Tyr Arg
 225 230 235 240
 Val Phe Glu Arg Val Ala Asn Ile Leu His Asp Asp Cys Ala Phe Leu
 245 250 255
 Ser Ala Phe Gly Asp Val Ser Lys Pro Glu Arg Tyr Ser Gly Asp Asn
 260 265 270
 Ile Ile Tyr Lys Pro Pro Gly His Ser Ala Pro Asp Met Val Tyr Leu
 275 280 285
 Gly Ala Met Thr Asn Phe Asp Val Thr Tyr Asn Trp Ile Gln Asp Lys
 290 295 300
 Cys Val Pro Leu Val Arg Glu Ile Thr Phe Glu Asn Gly Glu Glu Leu
 305 310 315 320
 Thr Glu Glu Gly Leu Pro Phe Leu Ile Leu Phe His Met Lys Glu Asp
 325 330 335
 Thr Glu Ser Leu Glu Ile Phe Gln Asn Glu Val Ala Arg Gln Leu Ile
 340 345 350
 Ser Glu Lys Gly Thr Ile Asn Phe Leu His Ala Asp Cys Asp Lys Phe
 355 360 365
 Arg His Pro Leu Leu His Ile Gln Lys Thr Pro Ala Asp Cys Pro Val
 370 375 380
 Ile Ala Ile Asp Ser Phe Arg His Met Tyr Val Phe Gly Asp Phe Lys
 385 390 395 400
 Asp Val Leu Ile Pro Gly Lys Leu Lys Gln Phe Val Phe Asp Leu His
 405 410 415
 Ser Gly Lys Leu His Arg Glu Phe His His Gly Pro Asp Pro Thr Asp
 420 425 430
 Thr Ala Pro Gly Glu Gln Ala Gln Asp Val Ala Ser Ser Pro Pro Glu
 435 440 445
 Ser Ser Phe Gln Lys Leu Ala Pro Ser Glu Tyr Arg Tyr Thr Leu Leu
 450 455 460
 Arg Asp Arg Asp Glu Leu
 465 470

<210> 2354
 <211> 174
 <212> PRT
 <213> Homo sapiens

<400> 2354
 Gly Leu Ser Arg Lys Leu Arg Ala Gly Phe Leu Pro Gly Phe Cys Arg
 1 5 10 15
 Val Ser Pro Cys Gly Ser Trp Val Val Glu Thr Leu Val Lys Met Ala
 20 25 30
 Cys Ala Ala Ala Arg Ser Pro Ala Asp Gln Asp Arg Phe Ile Cys Ile
 35 40 45
 Tyr Pro Ala Tyr Leu Asn Asn Lys Lys Thr Ile Ala Glu Gly Arg Arg
 50 55 60
 Ile Pro Ile Ser Lys Ala Val Glu Asn Pro Thr Ala Thr Glu Ile Gln
 65 70 75 80

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Asp Val Cys Ser Ala Val Gly Leu Asn Val Phe Leu Glu Lys Asn Lys
      85                      90                      95
Met Tyr Ser Arg Glu Trp Asn Arg Asp Val Gln Tyr Arg Gly Arg Val
      100                    105                    110
Arg Val Gln Leu Lys Gln Glu Asp Gly Ser Leu Cys Leu Val Gln Phe
      115                    120                    125
Pro Ser Arg Lys Ser Val Met Leu Tyr Ala Ala Glu Met Ile Pro Lys
      130                    135                    140
Leu Lys Thr Arg Thr Gln Lys Thr Gly Gly Ala Asp Gln Ser Leu Gln
      145                    150                    155                    160
Gln Gly Glu Gly Ser Lys Lys Gly Lys Gly Lys Lys Lys
      165                    170                    174

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<210> 2355
<211> 146
<212> PRT
<213> Homo sapiens

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<400> 2355
Gln Ser His Glu Thr Lys Met Gln Ser Gly Thr His Trp Arg Val Leu
 1      5      10      15
Gly Leu Cys Leu Leu Ser Val Gly Val Trp Gly Gln Asp Gly Asn Glu
      20      25      30
Glu Met Gly Gly Ile Thr Gln Thr Pro Tyr Lys Val Ser Ile Ser Gly
      35      40      45
Thr Thr Val Ile Leu Thr Cys Pro Gln Tyr Pro Gly Ser Glu Ile Leu
      50      55      60
Trp Gln His Asn Asp Lys Asn Ile Gly Gly Asp Glu Asp Asp Lys Asn
      65      70      75      80
Ile Gly Ser Asp Glu Asp His Leu Ser Leu Lys Glu Phe Ser Glu Leu
      85      90      95
Glu Gln Ser Gly Tyr Tyr Val Cys Tyr Pro Arg Gly Ser Lys Pro Glu
      100     105     110
Asp Ala Asn Phe Tyr Leu Tyr Leu Arg Ala Arg Gly Asn Pro Gly Leu
      115     120     125
Gln Asn Arg Tyr His Arg Leu Phe Arg Glu Asp His Ser Lys Gly His
      130     135     140
Ser Gln
145 146

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<210> 2356
<211> 101
<212> PRT
<213> Homo sapiens

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<400> 2356
Ala Val Gln Arg Ile Arg His Glu Met Asn Ile Phe Arg Leu Thr Gly
 1      5      10      15
Asp Leu Ser His Leu Ala Ala Ile Val Ile Leu Leu Leu Lys Ile Trp
      20      25      30
Lys Thr Arg Ser Cys Ala Gly Ile Ser Gly Lys Ser Gln Leu Leu Phe
      35      40      45
Ala Leu Val Phe Thr Thr Arg Tyr Leu Asp Leu Phe Thr Ser Phe Ile
      50      55      60
Ser Leu Tyr Asn Thr Ser Met Lys Val Trp Tyr Ala Ile His Arg Asn
      65      70      75      80
Val Phe His Leu Gln Cys Thr Gly Leu Trp Thr Leu Asn Leu Cys Gln
      85      90      95

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Leu Cys Ile Phe Asn
100 101

<210> 2357
<211> 170
<212> PRT
<213> Homo sapiens

<400> 2357
Gly Ala Gly Ala Gly Gly Asp Trp Ala Ala Met Asp Lys Leu Lys Lys
1 5 10 15
Val Leu Ser Gly Gln Asp Thr Glu Asp Arg Ser Gly Leu Ser Glu Val
20 25 30
Val Glu Ala Ser Ser Leu Ser Trp Ser Thr Arg Ile Lys Gly Phe Ile
35 40 45
Ala Cys Phe Ala Ile Gly Ile Leu Cys Ser Leu Leu Gly Thr Val Leu
50 55 60
Leu Trp Val Pro Arg Lys Gly Leu His Leu Phe Ala Val Phe Tyr Thr
65 70 75 80
Phe Gly Asn Ile Ala Ser Ile Gly Ser Thr Ile Phe Leu Met Gly Pro
85 90 95
Val Lys Gln Leu Lys Arg Met Phe Glu Pro Thr Arg Leu Ile Ala Thr
100 105 110
Ile Met Val Leu Leu Cys Phe Ala Leu Thr Leu Cys Ser Ala Phe Trp
115 120 125
Trp His Asn Lys Gly Leu Ala Leu Ile Phe Cys Ile Leu Gln Ser Leu
130 135 140
Ala Leu Thr Trp Tyr Ser Leu Ser Phe Ile Pro Phe Ala Arg Asp Ala
145 150 155 160
Val Lys Lys Cys Phe Ala Val Cys Leu Ala
165 170

<210> 2358
<211> 112
<212> PRT
<213> Homo sapiens

<400> 2358
Ala Gln Asp Ile Arg Ser Val His Ser Leu Gly Gln Lys Ser Thr Phe
1 5 10 15
Val Lys His Phe Arg Thr Leu Ser His Leu His Gly Leu Pro Asp Pro
20 25 30
Pro Pro His Trp Pro Pro Gln Glu Arg Ser Pro Pro Ser His Pro Cys
35 40 45
Met Pro Ser His Arg Pro Gln Ile Pro Gln Leu Ser Asn Ser Gly Pro
50 55 60
Ser Asp Pro Arg Trp Gly Cys Val Gly Pro Ser Met Pro Thr Ser Thr
65 70 75 80
Cys Leu Pro Gly Ala Val Glu Ala Ser Thr Thr Lys Ala Ser Leu Pro
85 90 95
Lys Cys Pro Val Asp Ser Ser Leu Pro Thr Pro Glu Ala Cys Phe Leu
100 105 110 112

<210> 2359

<211> 273
 <212> PRT
 <213> Homo sapiens

<400> 2359
 Glu Thr Arg Val Lys Thr Ser Leu Glu Leu Leu Arg Thr Gln Leu Glu
 1 5 10 15
 Pro Thr Gly Thr Val Gly Asn Thr Ile Met Thr Ser Gln Pro Val Pro
 20 25 30
 Asn Glu Thr Ile Ile Val Leu Pro Ser Asn Val Ile Asn Phe Ser Gln
 35 40 45
 Ala Glu Lys Pro Glu Pro Thr Asn Gln Gly Gln Asp Ser Leu Lys Lys
 50 55 60
 His Leu His Ala Glu Ile Lys Val Ile Gly Thr Ile Gln Ile Leu Cys
 65 70 75 80
 Gly Met Met Val Leu Ser Leu Gly Ile Ile Leu Ala Ser Ala Ser Phe
 85 90 95
 Ser Pro Asn Phe Thr Gln Val Thr Ser Thr Leu Leu Asn Ser Ala Tyr
 100 105 110
 Pro Phe Ile Gly Pro Phe Phe Phe Ile Ile Ser Gly Ser Leu Ser Ile
 115 120 125
 Ala Thr Glu Lys Arg Leu Thr Lys Leu Leu Val His Ser Ser Leu Val
 130 135 140
 Gly Ser Ile Leu Ser Ala Leu Ser Ala Leu Val Gly Phe Ile Ile Leu
 145 150 155 160
 Ser Val Lys Gln Ala Thr Leu Asn Pro Ala Ser Leu Gln Cys Glu Leu
 165 170 175
 Asp Lys Asn Asn Ile Pro Thr Arg Ser Tyr Val Ser Tyr Phe Tyr His
 180 185 190
 Asp Ser Leu Tyr Thr Thr Asp Cys Tyr Thr Ala Lys Ala Ser Leu Ala
 195 200 205
 Gly Thr Leu Ser Leu Met Leu Ile Cys Thr Leu Leu Glu Phe Cys Leu
 210 215 220
 Ala Val Leu Thr Ala Val Leu Arg Trp Lys Gln Ala Tyr Ser Asp Phe
 225 230 235 240
 Pro Gly Ser Val Leu Phe Leu Pro His Ser Tyr Ile Gly Asn Ser Gly
 245 250 255
 Met Ser Ser Lys Met Thr His Asp Cys Gly Tyr Glu Glu Leu Leu Thr
 260 265 270
 Ser
 273

<210> 2360
 <211> 157
 <212> PRT
 <213> Homo sapiens

<400> 2360
 Lys Tyr Arg Tyr Arg Arg Pro Tyr Pro Val Met Arg Lys Ile Cys Gln
 1 5 10 15
 Val Gly Pro Ala Gly Leu Ala Phe Ile Leu Asn Ile Ser Pro Val Ala
 20 25 30
 His Arg Val Ala Leu Cys His Leu Ala Gly Cys Gln Glu Gln Ala Ala
 35 40 45
 Trp Tyr His Thr Leu Gln Ile Leu Phe Phe Leu Val Ser Ala Tyr Phe
 50 55 60
 Phe Ser Cys Pro Val Pro Glu Lys Tyr Phe Pro Gly Ser Cys Asp Ile
 65 70 75 80
 Val Gly His Gly His Gln Ile Phe His Ala Phe Leu Ser Ile Cys Thr
 85 90 95

Leu Ser Gln Leu Glu Ala Ile Leu Leu Asp Tyr Gln Gly Arg Gln Glu
 100 105 110
 Ile Phe Leu Gln Arg His Gly Pro Leu Ser Val His Met Ala Cys Leu
 115 120 125
 Ser Phe Phe Leu Ala Ala Cys Ser Ala Ala Thr Ala Ala Leu Leu
 130 135 140
 Arg His Lys Val Lys Ala Arg Leu Thr Lys Lys Asp Ser
 145 150 155 157

<210> 2361
 <211> 134
 <212> PRT
 <213> Homo sapiens

<400> 2361
 Thr Glu Leu Ser Gln Leu Glu Lys Ala His Pro Pro Ala Asp Met Gly
 1 5 10 15
 Arg Arg Lys Ser Lys Arg Lys Pro Pro Pro Lys Lys Lys Met Thr Gly
 20 25 30
 Thr Leu Glu Thr Gln Phe Thr Cys Pro Phe Cys Asn His Glu Lys Ser
 35 40 45
 Cys Asp Val Lys Met Asp Arg Ala Arg Asn Thr Gly Val Ile Ser Cys
 50 55 60
 Thr Val Cys Leu Glu Glu Phe Gln Thr Pro Ile Thr Cys Ile Leu Gly
 65 70 75 80
 Asn Leu Gly Phe Phe Gln Arg Val Gly Arg Gly Leu Glu Ser Gly Pro
 85 90 95
 Cys Ser Ser Gly Pro Leu Cys Ala Leu Val Gln Gly Gln Ser Arg Pro
 100 105 110
 Glu Glu Gln Val Pro Pro Ser Asp Phe Cys Gly Val Arg Arg Cys Arg
 115 120 125
 Ala Gly Phe Gln Cys Gln
 130 134

<210> 2362
 <211> 386
 <212> PRT
 <213> Homo sapiens

<400> 2362
 Arg Thr Ser Thr Gln Lys Trp Gln Ser Val Phe Asn Asp Ser Gln Glu
 1 5 10 15
 His Leu Glu Arg Phe Tyr Cys Asn Pro Glu Asn Asp Arg Met Arg Met
 20 25 30
 Lys Tyr Gly Gly Gln Glu Phe Trp Ala Asp Leu Asn Ala Met Asn Val
 35 40 45
 Tyr Glu Thr Thr Glu Phe Asp Gln Leu Arg Arg Leu Ser Thr Pro Pro
 50 55 60
 Ser Ser Asn Val Asn Ser Ile Tyr His Thr Val Trp Lys Phe Phe Cys
 65 70 75 80
 Arg Asp His Phe Gly Trp Arg Glu Tyr Pro Glu Ser Val Ile Arg Leu
 85 90 95
 Ile Glu Glu Ala Asn Ser Arg Gly Leu Lys Glu Val Arg Phe Met Met
 100 105 110
 Trp Asn Asn His Tyr Ile Leu His Asn Ser Phe Phe Arg Arg Glu Ile
 115 120 125
 Lys Arg Arg Pro Leu Phe Arg Ser Cys Phe Ile Leu Leu Pro Tyr Leu
 130 135 140

Gln Thr Leu Gly Gly Val Pro Thr Gln Ala Pro Pro Pro Leu Glu Ala
 145 150 155 160
 Thr Ser Ser Ser Gln Ile Ile Cys Pro Asp Gly Val Thr Ser Ala Asn
 165 170 175
 Phe Tyr Pro Glu Thr Trp Val Tyr Met His Pro Ser Gln Asp Phe Ile
 180 185 190
 Gln Val Pro Val Ser Ala Glu Asp Lys Ser Tyr Arg Ile Ile Tyr Asn
 195 200 205
 Leu Phe His Lys Thr Val Pro Glu Phe Lys Tyr Arg Ile Leu Gln Ile
 210 215 220
 Leu Arg Val Gln Asn Gln Phe Leu Trp Glu Lys Tyr Lys Arg Lys Lys
 225 230 235 240
 Glu Tyr Met Asn Arg Lys Met Phe Gly Arg Asp Arg Ile Ile Asn Glu
 245 250 255
 Arg His Leu Phe His Gly Thr Ser Gln Asp Val Val Asp Gly Ile Cys
 260 265 270
 Lys His Asn Phe Asp Pro Arg Val Cys Gly Lys His Ala Thr Met Phe
 275 280 285
 Gly Gln Gly Ser Tyr Phe Ala Lys Lys Ala Ser Tyr Ser His Asn Phe
 290 295 300
 Ser Lys Lys Ser Ser Lys Gly Val His Phe Met Phe Leu Ala Lys Val
 305 310 315 320
 Leu Thr Gly Arg Tyr Thr Met Gly Ser His Gly Met Arg Arg Pro Pro
 325 330 335
 Pro Val Asn Pro Gly Ser Val Thr Ser Asp Leu Tyr Asp Ser Cys Val
 340 345 350
 Asp Asn Phe Phe Glu Pro Gln Ile Phe Val Ile Phe Asn Asp Asp Gln
 355 360 365
 Ser Tyr Pro Tyr Phe Val Ile Gln Tyr Glu Glu Val Ser Asn Thr Val
 370 375 380
 Ser Ile
 385 386

<210> 2363
 <211> 171
 <212> PRT
 <213> Homo sapiens

<400> 2363
 Ile Glu Asn Cys Arg Thr Arg Leu Arg Gln Ala Trp His Glu Val Cys
 1 5 10 15
 Gly Asn Lys Met Ala Ala Pro Ile Pro Gln Gly Phe Ser Cys Leu Ser
 20 25 30
 Arg Phe Leu Gly Trp Trp Phe Arg Gln Pro Val Leu Val Thr Gln Ser
 35 40 45
 Ala Ala Ile Val Pro Val Arg Thr Lys Lys Arg Phe Thr Pro Pro Ile
 50 55 60
 Tyr Gln Pro Lys Phe Lys Thr Glu Lys Glu Phe Met Gln His Ala Arg
 65 70 75 80
 Lys Ala Gly Leu Val Ile Pro Pro Glu Lys Ser Asp Arg Ser Ile His
 85 90 95
 Leu Ala Cys Thr Ala Gly Ile Phe Asp Ala Tyr Val Pro Pro Glu Gly
 100 105 110
 Asp Ala Arg Ile Ser Ser Leu Ser Lys Glu Gly Leu Ile Glu Arg Thr
 115 120 125
 Glu Arg Met Lys Lys Thr Met Ala Ser Gln Val Ser Ile Arg Arg Ile
 130 135 140
 Lys Asp Tyr Asp Ala Asn Phe Lys Ile Lys Asp Phe Pro Glu Lys Ala
 145 150 155 160
 Lys Asp Ile Phe Ile Glu Gly Ser Pro Leu Tyr
 165 170 171

<210> 2364
 <211> 115
 <212> PRT
 <213> Homo sapiens

<400> 2364
 Tyr Ile Arg Thr Gly Tyr Val Tyr Ile Cys Ile Ile Tyr Ala Gln Leu
 1 5 10 15
 Met Tyr Thr Tyr Tyr Ile Arg Thr Ala Tyr Val Tyr Ile Cys Ile Leu
 20 25 30
 Tyr Ala Gln Leu Met Tyr Thr Tyr Val Leu Tyr Thr His Ser Leu Cys
 35 40 45
 Ile His Met Tyr Ser Ile Arg Thr Ala Tyr Val Tyr Ile Cys Ile Ile
 50 55 60
 Tyr Ala Gln Ile Met Tyr Thr Tyr Val Phe Tyr Thr His Arg Leu Cys
 65 70 75 80
 Ile His Met Tyr Ser Ile Arg Thr Asp Tyr Val Tyr Ile Cys Ile Leu
 85 90 95
 Tyr Ala Gln Leu Met Tyr Thr Tyr Val Phe Tyr Thr His Ser Tyr Met
 100 105 110
 Ser Asp Glu
 115

<210> 2365
 <211> 728
 <212> PRT
 <213> Homo sapiens

<400> 2365
 Asn Ser Ser Glu His Phe Ser Gln Ala Pro Gln Arg Leu Ser Phe Tyr
 1 5 10 15
 Ser Trp Tyr Gly Ser Ala Arg Leu Phe Arg Phe Arg Val Pro Pro Asp
 20 25 30
 Ala Val Leu Leu Arg Trp Leu Leu Gln Val Ser Arg Glu Ser Gly Ala
 35 40 45
 Ala Cys Thr Asp Ala Glu Ile Thr Val His Phe Arg Ser Gly Ala Pro
 50 55 60
 Pro Val Ile Asn Pro Leu Gly Thr Ser Phe Pro Asp Asp Thr Ala Val
 65 70 75 80
 Gln Pro Ser Phe Gln Val Gly Val Pro Leu Ser Thr Thr Pro Arg Ser
 85 90 95
 Asn Ala Ser Val Asn Val Ser His Pro Ala Pro Gly Asp Trp Phe Val
 100 105 110
 Ala Ala His Leu Pro Pro Ser Ser Gln Lys Ile Glu Leu Lys Gly Leu
 115 120 125
 Ala Pro Thr Cys Ala Tyr Val Phe Gln Pro Glu Leu Leu Val Thr Arg
 130 135 140
 Val Val Glu Ile Ser Ile Met Glu Pro Asp Val Pro Leu Pro Gln Thr
 145 150 155 160
 Leu Leu Ser His Pro Ser Tyr Leu Lys Val Phe Val Pro Asp Tyr Thr
 165 170 175
 Arg Glu Leu Leu Glu Leu Arg Asp Cys Val Ser Asn Gly Ser Leu
 180 185 190
 Gly Cys Pro Val Arg Leu Thr Val Gly Pro Val Thr Leu Pro Ser Asn
 195 200 205
 Phe Gln Lys Val Leu Thr Cys Thr Gly Ala Pro Trp Pro Cys Arg Leu
 210 215 220

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Leu Leu Pro Ser Pro Pro Trp Asp Arg Trp Leu Gln Val Thr Ala Glu
225                230                235                240
Ser Leu Val Gly Pro Leu Gly Thr Val Ala Phe Ser Ala Val Ala Ala
                245                250                255
Leu Thr Ala Cys Arg Pro Arg Ser Val Thr Ile Gln Pro Leu Leu Gln
                260                265                270
Ser Ser Gln Asn Gln Ser Phe Asn Ala Ser Ser Gly Leu Leu Ser Pro
                275                280                285
Ser Pro Asp His Gln Asp Leu Gly Arg Ser Gly Arg Val Asp Arg Ser
                290                295                300
Pro Phe Cys Leu Thr Asn Tyr Pro Val Thr Arg Glu Asp Met Asp Val
305                310                315                320
Val Ser Val His Phe Gln Pro Leu Asp Arg Val Ser Val Arg Val Cys
                325                330                335
Ser Asp Thr Pro Ser Val Met Arg Leu Arg Leu Asn Thr Gly Met Asp
                340                345                350
Ser Gly Gly Ser Leu Thr Ile Ser Leu Arg Ala Asn Lys Thr Glu Met
                355                360                365
Arg Asn Glu Thr Val Val Val Ala Cys Val Asn Ala Ala Ser Pro Phe
                370                375                380
Leu Gly Phe Asn Thr Ser Leu Asn Cys Thr Thr Ala Phe Phe Gln Gly
385                390                395                400
Tyr Pro Leu Ser Leu Ser Ala Trp Ser Arg Arg Ala Asn Leu Ile Ile
                405                410                415
Pro Tyr Pro Glu Thr Asp Asn Trp Tyr Leu Ser Leu Gln Leu Met Cys
                420                425                430
Pro Glu Asn Ala Glu Asp Cys Glu Gln Ala Val Val His Val Glu Thr
                435                440                445
Thr Leu Tyr Leu Val Pro Cys Leu Asn Asp Cys Gly Pro Tyr Gly Gln
                450                455                460
Cys Leu Leu Leu Arg Arg His Ser Tyr Leu Tyr Ala Ser Cys Ser Cys
465                470                475                480
Lys Ala Gly Trp Arg Gly Trp Ser Cys Thr Asp Asn Ser Thr Ala Gln
                485                490                495
Thr Val Ala Gln Gln Arg Ala Ala Thr Leu Leu Leu Thr Leu Ser Asn
                500                505                510
Leu Met Phe Leu Ala Pro Ile Ala Val Ser Val Arg Arg Phe Phe Leu
                515                520                525
Val Glu Ala Ser Val Tyr Ala Tyr Thr Met Phe Phe Ser Thr Phe Tyr
                530                535                540
His Ala Cys Asp Gln Pro Gly Glu Ala Val Leu Cys Ile Leu Ser Tyr
545                550                555                560
Asp Thr Leu Gln Tyr Cys Asp Phe Leu Gly Ser Gly Ala Ala Ile Trp
                565                570                575
Val Thr Ile Leu Cys Met Ala Arg Leu Lys Thr Val Leu Lys Tyr Val
                580                585                590
Leu Phe Leu Leu Gly Thr Leu Val Ile Ala Met Ser Leu Gln Leu Asp
                595                600                605
Arg Arg Gly Met Trp Asn Met Leu Gly Pro Cys Leu Phe Ala Phe Val
                610                615                620
Ile Met Ala Ser Met Trp Ala Tyr Arg Cys Gly His Arg Arg Gln Cys
625                630                635                640
Tyr Pro Thr Ser Trp Gln Arg Trp Ala Phe Tyr Leu Leu Pro Gly Val
                645                650                655
Ser Met Ala Ser Val Gly Ile Ala Ile Tyr Thr Ser Met Met Thr Ser
                660                665                670
Asp Asn Tyr Tyr Tyr Thr His Ser Ile Trp His Ile Leu Leu Ala Gly
                675                680                685
Ser Ala Ala Leu Leu Leu Pro Pro Pro Asp Gln Pro Ala Glu Pro Trp
                690                695                700
Ala Cys Ser Gln Lys Phe Pro Cys His Tyr Gln Ile Cys Lys Asn Asp
705                710                715                720
Arg Glu Glu Leu Tyr Ala Val Thr
                725                728

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<210> 2366
 <211> 151
 <212> PRT
 <213> Homo sapiens

<400> 2366
 Lys Trp Tyr Pro Ser Gly Pro Val Arg Ile Pro Gly Arg Phe Tyr Tyr
 1 5 10 15
 Lys Leu Pro Ala Gly His Arg Arg Cys Arg Met Ala Pro Ala Lys Lys
 20 25 30
 Gly Gly Glu Lys Lys Lys Gly Arg Ser Ala Ile Asn Glu Val Val Thr
 35 40 45
 Arg Glu Tyr Thr Ile Asn Ile His Lys Arg Ile His Gly Val Gly Phe
 50 55 60
 Lys Lys Arg Ala Pro Arg Ala Leu Lys Glu Ile Arg Lys Phe Ala Met
 65 70 75 80
 Lys Glu Met Gly Thr Pro Asp Val Arg Ile Asp Thr Arg Leu Asn Lys
 85 90 95
 Ala Val Trp Ala Lys Gly Ile Arg Asn Val Pro Tyr Arg Ile Arg Val
 100 105 110
 Arg Leu Ser Arg Lys Arg Asn Glu Asp Glu Asp Ser Pro Asn Lys Leu
 115 120 125
 Tyr Thr Leu Val Thr Tyr Val Pro Val Thr Thr Phe Lys Asn Leu Gln
 130 135 140
 Thr Val Asn Val Asp Glu Asn
 145 150 151

<210> 2367
 <211> 380
 <212> PRT
 <213> Homo sapiens

<400> 2367
 Leu Glu Arg Thr Pro Ala Ser Ala Asp Met Ala Trp Thr Lys Tyr Gln
 1 5 10 15
 Leu Phe Leu Ala Gly Leu Met Leu Val Thr Gly Ser Ile Asn Thr Leu
 20 25 30
 Ser Ala Lys Trp Ala Asp Asn Phe Met Ala Glu Gly Cys Gly Gly Ser
 35 40 45
 Lys Glu His Ser Phe Gln His Pro Phe Leu Gln Ala Val Gly Met Phe
 50 55 60
 Leu Gly Glu Phe Ser Cys Leu Ala Ala Phe Tyr Leu Leu Arg Cys Arg
 65 70 75 80
 Ala Ala Gly Gln Ser Asp Ser Ser Val Asp Pro Gln Gln Pro Phe Asn
 85 90 95
 Pro Leu Leu Phe Leu Pro Pro Ala Leu Cys Asp Met Thr Gly Thr Ser
 100 105 110
 Leu Met Tyr Val Ala Leu Asn Met Thr Ser Ala Ser Ser Phe Gln Met
 115 120 125
 Leu Arg Gly Ala Val Ile Ile Phe Thr Gly Leu Phe Ser Val Ala Phe
 130 135 140
 Leu Gly Arg Arg Leu Val Leu Ser Gln Trp Leu Gly Ile Leu Ala Thr
 145 150 155 160
 Ile Ala Gly Leu Val Val Val Gly Leu Ala Asp Leu Leu Ser Lys His
 165 170 175
 Asp Ser Gln His Lys Leu Ser Glu Val Ile Thr Gly Asp Leu Leu Ile
 180 185 190

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Ile Met Ala Gln Ile Ile Val Ala Ile Gln Met Val Leu Glu Glu Lys
      195                      200                      205
Phe Val Tyr Lys His Asn Val His Pro Leu Arg Ala Val Gly Thr Glu
      210                      215                      220
Gly Leu Phe Gly Phe Val Ile Leu Ser Leu Leu Val Pro Met Tyr
225                      230                      235                      240
Tyr Ile Pro Ala Gly Ser Phe Ser Gly Asn Pro Arg Gly Thr Leu Glu
      245                      250                      255
Asp Ala Leu Asp Ala Phe Cys Gln Val Gly Gln Gln Pro Leu Ile Ala
      260                      265                      270
Val Ala Leu Leu Gly Asn Ile Ser Ser Ile Ala Phe Phe Asn Phe Ala
      275                      280                      285
Gly Ile Ser Val Thr Lys Glu Leu Ser Ala Thr Thr Arg Met Val Leu
      290                      295                      300
Asp Ser Leu Arg Thr Val Val Ile Trp Ala Leu Ser Leu Ala Leu Gly
305                      310                      315                      320
Trp Glu Ala Phe His Ala Leu Gln Ile Leu Gly Phe Leu Ile Leu Leu
      325                      330                      335
Ile Gly Thr Ala Leu Tyr Asn Gly Leu His Arg Pro Leu Leu Gly Arg
      340                      345                      350
Leu Ser Arg Gly Arg Pro Leu Ala Glu Glu Ser Glu Gln Glu Arg Leu
      355                      360                      365
Leu Gly Gly Thr Arg Thr Pro Ile Asn Asp Ala Ser
      370                      375                      380

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<210> 2368
 <211> 123
 <212> PRT
 <213> Homo sapiens

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<400> 2368
Ser Pro Phe Trp Thr Glu Lys Arg Arg Met Glu Lys Pro Leu Phe Pro
 1      5      10      15
Leu Val Pro Leu His Trp Phe Gly Phe Gly Tyr Thr Ala Leu Val Val
      20      25      30
Ser Gly Gly Ile Val Gly Tyr Val Lys Thr Gly Ser Val Pro Ser Leu
      35      40      45
Ala Ala Gly Leu Leu Phe Gly Ser Leu Ala Gly Leu Gly Ala Tyr Gln
      50      55      60
Leu Tyr Gln Asp Pro Arg Asn Val Trp Gly Phe Leu Ala Ala Thr Ser
      65      70      75      80
Val Thr Phe Val Gly Val Met Gly Met Arg Ser Tyr Tyr Tyr Gly Lys
      85      90      95
Phe Met Pro Val Gly Leu Ile Ala Gly Ala Ser Leu Leu Met Ala Ala
      100      105      110
Lys Val Gly Val Arg Met Leu Met Thr Ser Asp
      115      120      123

```

<210> 2369
 <211> 595
 <212> PRT
 <213> Homo sapiens

```

<400> 2369
Val Ser Ala Ala Ala Val Asn Met Glu Pro Pro Asp Ala Pro Ala Gln
 1      5      10      15
Ala Arg Gly Ala Pro Arg Leu Leu Leu Leu Ala Val Leu Leu Ala Ala
      20      25      30

```

His Pro Asp Ala Gln Ala Glu Val Arg Leu Ser Val Pro Pro Leu Val
 35 40 45
 Glu Val Met Arg Gly Lys Ser Val Ile Leu Asp Cys Thr Pro Thr Gly
 50 55 60
 Thr His Asp His Tyr Met Leu Glu Trp Phe Leu Thr Asp Arg Ser Gly
 65 70 75 80
 Ala Arg Pro Arg Leu Ala Ser Ala Glu Met Gln Gly Ser Glu Leu Gln
 85 90 95
 Val Thr Met His Asp Thr Arg Gly Arg Ser Pro Pro Tyr Gln Leu Asp
 100 105 110
 Ser Gln Gly Arg Leu Val Leu Ala Glu Ala Gln Val Gly Asp Glu Arg
 115 120 125
 Asp Tyr Val Cys Val Val Arg Ala Gly Ala Ala Gly Thr Ala Glu Ala
 130 135 140
 Ala Ala Arg Leu Asn Val Phe Ala Lys Pro Glu Ala Thr Glu Val Ser
 145 150 155 160
 Pro Asn Lys Gly Thr Leu Ser Val Met Glu Asp Ser Ala Gln Glu Ile
 165 170 175
 Ala Thr Ser Asn Ser Arg Asn Gly Asn Pro Ala Pro Lys Ile Thr Trp
 180 185 190
 Tyr Arg Asn Gly Gln Arg Leu Glu Val Pro Val Glu Met Asn Pro Glu
 195 200 205
 Gly Tyr Met Thr Ser Arg Thr Val Arg Glu Ala Ser Gly Leu Leu Ser
 210 215 220
 Leu Thr Ser Thr Leu Tyr Leu Arg Leu Arg Lys Asp Asp Arg Asp Ala
 225 230 235 240
 Ser Phe His Cys Ala Ala His Tyr Ser Leu Pro Glu Gly Arg His Gly
 245 250 255
 Arg Leu Asp Ser Pro Thr Phe His Leu Thr Leu His Tyr Pro Thr Glu
 260 265 270
 His Val Gln Phe Trp Val Gly Ser Pro Ser Thr Pro Ala Gly Trp Val
 275 280 285
 Arg Glu Gly Asp Thr Val Gln Leu Leu Cys Arg Gly Asp Gly Ser Pro
 290 295 300
 Ser Pro Glu Tyr Thr Leu Phe Arg Leu Gln Asp Glu Gln Glu Glu Val
 305 310 315 320
 Leu Asn Val Asn Leu Glu Gly Asn Leu Thr Leu Glu Gly Val Thr Arg
 325 330 335
 Gly Gln Ser Gly Thr Tyr Gly Cys Arg Val Glu Asp Tyr Asp Ala Ala
 340 345 350
 Asp Asp Val Gln Leu Ser Lys Thr Leu Glu Leu Arg Val Ala Tyr Leu
 355 360 365
 Asp Pro Leu Glu Leu Ser Glu Gly Lys Val Leu Ser Leu Pro Leu Asn
 370 375 380
 Ser Arg Ala Val Val Asn Cys Ser Val His Gly Leu Pro Thr Pro Ala
 385 390 395 400
 Leu Arg Trp Thr Lys Asp Ser Thr Pro Leu Gly Asp Gly Pro Met Leu
 405 410 415
 Ser Leu Ser Ser Ile Thr Phe Asp Ser Asn Gly Thr Tyr Val Cys Glu
 420 425 430
 Ala Ser Leu Pro Thr Val Pro Val Leu Ser Arg Thr Gln Asn Phe Thr
 435 440 445
 Leu Leu Val Gln Gly Ser Pro Glu Leu Lys Thr Ala Glu Ile Glu Pro
 450 455 460
 Lys Ala Asp Gly Ser Trp Arg Glu Gly Asp Glu Val Thr Leu Ile Cys
 465 470 475 480
 Ser Ala Arg Gly His Pro Asp Pro Lys Leu Ser Trp Ser Gln Leu Gly
 485 490 495
 Gly Ser Pro Ala Glu Pro Ile Pro Gly Arg Gln Gly Trp Val Ser Ser
 500 505 510
 Ser Leu Thr Leu Lys Val Thr Ser Ala Leu Ser Arg Asp Gly Ile Ser
 515 520 525
 Cys Glu Ala Ser Asn Pro His Gly Asn Lys Arg His Val Phe His Phe
 530 535 540

Gly Thr Val Ser Pro Gln Thr Ser Gln Ala Gly Val Ala Val Met Ala
 545 550 555 560
 Val Ala Val Ser Val Gly Leu Leu Leu Leu Val Val Ala Val Phe Tyr
 565 570 575
 Cys Val Arg Arg Lys Gly Gly Pro Cys Cys Arg Gln Arg Arg Glu Lys
 580 585 590
 Gly Ala Pro
 595

<210> 2370
 <211> 399
 <212> PRT
 <213> Homo sapiens

<400> 2370
 Pro Arg Val Arg Leu Leu Arg Pro Ser Arg Ser Arg Ser Cys Arg Gly
 1 5 10 15
 Leu Leu Ser Thr Arg Ala Pro Gly Pro Ser Pro Phe Arg Ser Leu His
 20 25 30
 Ser Ser Pro Leu Leu Pro His Ala Met Lys Ser Pro Phe Tyr Arg Cys
 35 40 45
 Gln Asn Thr Thr Ser Val Glu Lys Gly Asn Ser Ala Val Met Gly Gly
 50 55 60
 Val Leu Phe Ser Thr Gly Leu Leu Gly Asn Leu Leu Ala Leu Gly Leu
 65 70 75 80
 Leu Ala Arg Ser Gly Leu Gly Trp Cys Ser Arg Arg Pro Leu Arg Pro
 85 90 95
 Leu Pro Ser Val Phe Tyr Met Leu Val Cys Gly Leu Thr Val Thr Asp
 100 105 110
 Leu Leu Gly Lys Cys Leu Leu Ser Pro Val Val Leu Ala Ala Tyr Ala
 115 120 125
 Gln Asn Arg Ser Leu Arg Val Leu Ala Pro Ala Leu Asp Asn Ser Leu
 130 135 140
 Cys Gln Ala Phe Ala Phe Phe Met Ser Phe Phe Gly Leu Ser Ser Thr
 145 150 155 160
 Leu Gln Leu Leu Ala Met Ala Leu Glu Cys Trp Leu Ser Leu Gly His
 165 170 175
 Pro Phe Phe Tyr Arg Arg His Ile Thr Leu Arg Leu Gly Ala Leu Val
 180 185 190
 Ala Pro Val Val Ser Ala Phe Ser Leu Ala Phe Cys Ala Leu Pro Phe
 195 200 205
 Met Gly Phe Gly Lys Phe Val Gln Tyr Cys Pro Gly Thr Trp Cys Phe
 210 215 220
 Ile Gln Met Val His Glu Gly Ser Leu Ser Val Leu Gly Tyr Ser
 225 230 235 240
 Val Leu Tyr Ser Ser Leu Met Ala Leu Leu Val Leu Ala Thr Val Leu
 245 250 255
 Cys Asn Leu Gly Ala Met Arg Asn Leu Tyr Ala Met His Arg Arg Leu
 260 265 270
 Gln Arg His Pro Arg Ser Cys Thr Arg Asp Cys Ala Glu Pro Arg Ala
 275 280 285
 Asp Gly Arg Glu Ala Ser Pro Gln Pro Leu Glu Glu Leu Asp His Leu
 290 295 300
 Leu Leu Leu Ala Leu Met Thr Val Leu Phe Thr Met Cys Ser Leu Pro
 305 310 315 320
 Val Ile Tyr Arg Ala Tyr Tyr Gly Ala Phe Lys Asp Val Lys Glu Lys
 325 330 335
 Asn Arg Thr Ser Glu Glu Ala Glu Asp Leu Arg Ala Leu Arg Phe Leu
 340 345 350
 Ser Val Ile Ser Ile Val Asp Pro Trp Ile Phe Ile Ile Phe Arg Ser
 355 360 365

Pro Val Phe Arg Ile Phe Phe His Lys Ile Phe Ile Arg Pro Leu Arg
 370 375 380
 Tyr Arg Ser Arg Cys Ser Asn Ser Thr Asn Met Glu Ser Ser Leu
 385 390 395 399

<210> 2371
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 2371
 Arg Arg Gly Glu Ile Asp Met Ala Thr Glu Gly Asp Val Glu Leu Glu
 1 5 10 15
 Leu Glu Thr Glu Thr Ser Gly Pro Glu Arg Pro Pro Glu Lys Pro Arg
 20 25 30
 Lys His Asp Ser Gly Ala Ala Asp Leu Glu Arg Val Thr Asp Tyr Ala
 35 40 45
 Glu Glu Lys Glu Ile Gln Ser Ser Asn Leu Glu Thr Ala Met Ser Val
 50 55 60
 Ile Gly Asp Arg Arg Ser Arg Glu Gln Lys Ala Lys Gln Glu Arg
 65 70 75 79

<210> 2372
 <211> 149
 <212> PRT
 <213> Homo sapiens

<400> 2372
 Arg Lys Glu Arg Arg Arg Arg Arg Arg Met Glu Ala Val Val Phe
 1 5 10 15
 Val Phe Ser Leu Leu Asp Cys Cys Ala Leu Ile Phe Leu Ser Val Tyr
 20 25 30
 Phe Ile Ile Thr Leu Ser Asp Leu Glu Cys Asp Tyr Ile Asn Ala Arg
 35 40 45
 Ser Cys Cys Ser Lys Leu Asn Lys Trp Val Ile Pro Glu Leu Ile Gly
 50 55 60
 His Thr Ile Val Thr Val Leu Leu Leu Met Ser Leu His Trp Phe Ile
 65 70 75 80
 Phe Leu Leu Asn Leu Pro Val Ala Thr Trp Asn Ile Tyr Arg Tyr Ile
 85 90 95
 Met Val Pro Ser Gly Asn Met Gly Val Phe Asp Pro Thr Glu Ile His
 100 105 110
 Asn Arg Gly Gln Leu Lys Ser His Met Lys Glu Ala Met Ile Lys Leu
 115 120 125
 Gly Phe His Leu Leu Cys Phe Phe Met Tyr Leu Tyr Ser Met Ile Leu
 130 135 140
 Ala Leu Ile Asn Asp
 145 149

<210> 2373
 <211> 135
 <212> PRT
 <213> Homo sapiens

<400> 2373


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Arg Met Met Lys Cys Pro Gln Ala Leu Leu Ala Ile Phe Trp Leu Leu
 1          5          10          15
Leu Ser Trp Val Ser Ser Glu Asp Lys Val Val Gln Ser Pro Leu Ser
          20          25          30
Leu Val Val His Glu Gly Asp Thr Val Thr Leu Asn Cys Ser Tyr Glu
          35          40          45
Val Thr Asn Phe Arg Ser Leu Leu Trp Tyr Lys Gln Glu Lys Lys Ala
          50          55          60
Pro Thr Phe Leu Phe Met Leu Thr Ser Ser Gly Ile Glu Lys Lys Ser
 65          70          75          80
Gly Arg Leu Ser Ser Ile Leu Asp Lys Lys Glu Leu Ser Ser Ile Leu
          85          90          95
Asn Ile Thr Ala Thr Gln Thr Gly Asp Ser Ala Ile Tyr Leu Cys Ala
          100          105          110
Val Glu Ala Gln Cys Ser Leu Val Thr Cys Ser Leu Tyr Ser Asn Ser
          115          120          125
Thr Ala Glu Ala Leu Gln Leu
130          135

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<210> 2374

<211> 329

<212> PRT

<213> Homo sapiens

<400> 2374

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Gly Val Arg Leu Arg Tyr Ser Pro Ile Ala Val Val Met Val Gly Glu
 1          5          10          15
Ala Gly Arg Asp Leu Arg Arg Arg Arg Ala Val Ala Val Thr Ala Glu
          20          25          30
Lys Met Ala Val Leu Ala Pro Leu Ile Ala Leu Val Tyr Ser Val Pro
          35          40          45
Arg Leu Ser Arg Trp Leu Ala Gln Pro Tyr Tyr Leu Leu Ser Ala Leu
          50          55          60
Leu Ser Ala Ala Phe Leu Leu Val Arg Lys Leu Pro Pro Leu Cys His
 65          70          75          80
Gly Leu Pro Thr Gln Arg Glu Asp Gly Asn Pro Cys Asp Phe Asp Trp
          85          90          95
Arg Glu Val Glu Ile Leu Met Phe Leu Ser Ala Ile Val Met Met Lys
          100          105          110
Asn Arg Arg Ser Ile Thr Val Glu Gln His Ile Gly Asn Ile Phe Met
          115          120          125
Phe Ser Lys Val Ala Asn Thr Ile Leu Phe Phe Arg Leu Asp Ile Arg
130          135          140
Met Gly Leu Leu Tyr Ile Thr Leu Cys Ile Val Phe Leu Met Thr Cys
145          150          155          160
Lys Pro Pro Leu Tyr Met Gly Pro Glu Tyr Ile Lys Tyr Phe Asn Asp
          165          170          175
Lys Thr Ile Asp Glu Glu Leu Glu Arg Asp Lys Arg Val Thr Trp Ile
          180          185          190
Val Glu Phe Phe Ala Asn Trp Ser Asn Asp Cys Gln Ser Phe Ala Pro
          195          200          205
Ile Tyr Ala Asp Leu Ser Leu Lys Tyr Asn Cys Thr Gly Leu Asn Phe
210          215          220
Gly Lys Val Asp Val Gly Arg Tyr Thr Asp Val Ser Thr Arg Tyr Lys
225          230          235          240
Val Ser Thr Ser Pro Leu Thr Lys Gln Leu Pro Thr Leu Ile Leu Phe
          245          250          255
Gln Gly Gly Lys Glu Ala Met Arg Arg Pro Gln Ile Asp Lys Lys Gly
260          265          270
Arg Ala Val Ser Trp Thr Phe Ser Glu Glu Asn Val Ile Arg Glu Phe
275          280          285

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Asn Leu Asn Glu Leu Tyr Gln Arg Ala Lys Lys Leu Ser Lys Ala Gly
 290 295 300
 Asp Asn Ile Pro Glu Glu Gln Pro Val Ala Ser Thr Pro Thr Thr Val
 305 310 315 320
 Ser Asp Gly Glu Asn Lys Lys Asp Lys
 325 329

<210> 2375
 <211> 162
 <212> PRT
 <213> Homo sapiens

<400> 2375
 Thr Val Ser Phe His Lys Thr Met Ala Ser Leu Lys Cys Ser Thr Val
 1 5 10 15
 Val Cys Val Ile Cys Leu Glu Lys Pro Lys Tyr Arg Cys Pro Ala Cys
 20 25 30
 Arg Val Pro Tyr Cys Ser Val Val Cys Phe Arg Lys His Lys Glu Gln
 35 40 45
 Cys Asn Pro Glu Thr Arg Pro Val Glu Lys Lys Ile Arg Ser Ala Leu
 50 55 60
 Pro Thr Lys Thr Val Lys Pro Val Glu Asn Lys Asp Asp Asp Ser
 65 70 75 80
 Ile Ala Asp Phe Leu Asn Ser Asp Glu Glu Glu Asp Arg Val Ser Leu
 85 90 95
 Gln Asn Leu Lys Asn Leu Gly Glu Ser Ala Thr Leu Arg Ser Leu Leu
 100 105 110
 Leu Asn Pro His Leu Arg Gln Leu Met Val Asn Leu Asp Gln Gly Glu
 115 120 125
 Asp Lys Ala Lys Leu Met Arg Ala Tyr Met Gln Glu Pro Leu Phe Val
 130 135 140
 Glu Phe Ala Asp Cys Cys Leu Gly Ile Val Glu Pro Ser Gln Asn Glu
 145 150 155 160
 Glu Ser
 162

<210> 2376
 <211> 161
 <212> PRT
 <213> Homo sapiens

<400> 2376
 Val Gly Met Glu Leu Pro Ala Val Asn Leu Lys Val Ile Leu Leu Gly
 1 5 10 15
 His Trp Leu Leu Thr Thr Trp Gly Cys Ile Val Phe Ser Gly Ser Tyr
 20 25 30
 Ala Trp Ala Asn Phe Thr Ile Leu Ala Leu Gly Val Trp Ala Val Ala
 35 40 45
 Gln Arg Asp Ser Ile Asp Ala Ile Ser Met Phe Leu Gly Gly Leu Leu
 50 55 60
 Ala Thr Ile Phe Leu Asp Ile Val His Ile Ser Ile Phe Tyr Pro Arg
 65 70 75 80
 Val Ser Leu Thr Asp Thr Gly Arg Phe Gly Val Gly Met Ala Ile Leu
 85 90 95
 Ser Leu Leu Leu Lys Pro Leu Ser Cys Cys Phe Val Tyr His Met Tyr
 100 105 110
 Arg Glu Arg Gly Gly Glu Leu Leu Val His Thr Gly Phe Leu Gly Ser
 115 120 125

Ser Gln Asp Arg Ser Ala Tyr Gln Thr Ile Asp Ser Ala Glu Ala Pro
 130 135 140
 Ala Asp Pro Phe Ala Val Pro Glu Gly Arg Ser Gln Asp Ala Arg Gly
 145 150 155 160
 Tyr
 161

<210> 2377
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 2377
 Asp Phe Leu Gly Pro Ala Ser Pro Gln Glu Glu Gly Gly Ser Glu Ser
 1 5 10 15
 Ser Thr Met Thr Glu Leu Glu Thr Ala Met Gly Met Ile Ile Asp Val
 20 25 30
 Phe Ser Arg Tyr Ser Gly Ser Glu Gly Ser Thr Gln Thr Leu Thr Lys
 35 40 45
 Gly Glu Leu Lys Val Leu Met Glu Lys Glu Leu Pro Gly Phe Leu Gln
 50 55 60
 Ser Gly Lys Asp Lys Asp Ala Val Asp Lys Leu Leu Lys Asp Leu Asp
 65 70 75 80
 Ala Asn Gly Asp Ala Gln Val Asp Phe Ser Glu Phe Ile Val Phe Val
 85 90 95
 Ala Ala Ile Thr Ser Ala Cys His Lys Tyr Phe Glu Lys Ala Gly Leu
 100 105 110
 Lys
 113

<210> 2378
 <211> 314
 <212> PRT
 <213> Homo sapiens

<400> 2378
 Lys Met Ala Ala Thr Leu Gly Pro Leu Gly Ser Trp Gln Gln Trp Arg
 1 5 10 15
 Arg Cys Leu Ser Ala Arg Asp Gly Ser Arg Arg Leu Leu Leu Leu
 20 25 30
 Leu Leu Gly Ser Gly Gln Gly Pro Gln Gln Val Gly Ala Gly Gln Thr
 35 40 45
 Phe Glu Tyr Leu Lys Arg Glu His Ser Leu Ser Lys Pro Tyr Gln Gly
 50 55 60
 Glu Ala Pro Arg Pro Cys Phe Leu Arg Asp Trp Glu Leu Gln Val His
 65 70 75 80
 Phe Lys Ile His Gly Gln Gly Lys Lys Asn Leu His Gly Asp Gly Leu
 85 90 95
 Ala Ile Trp Tyr Thr Lys Asp Arg Met Gln Pro Gly Pro Val Phe Gly
 100 105 110
 Asn Met Asp Lys Phe Val Gly Leu Gly Val Phe Val Asp Thr Tyr Pro
 115 120 125
 Asn Glu Glu Lys Gln Gln Glu Arg Val Phe Pro Tyr Ile Ser Ala Met
 130 135 140
 Val Asn Asn Gly Ser Leu Ser Tyr Asp His Glu Arg Asp Gly Arg Pro
 145 150 155 160
 Thr Glu Leu Gly Gly Cys Thr Ala Ile Val Arg Asn Leu His Tyr Asp
 165 170 175

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Thr Phe Leu Val Ile Arg Tyr Val Lys Arg His Leu Thr Ile Met Met
      180      185      190
Asp Ile Asp Gly Lys His Glu Trp Arg Asp Cys Ile Glu Val Pro Gly
      195      200      205
Val Arg Leu Pro Arg Gly Tyr Tyr Phe Gly Thr Ser Ser Ile Thr Gly
      210      215      220
Asp Leu Ser Asp Asn His Asp Val Ile Ser Leu Lys Leu Phe Glu Leu
      225      230      235      240
Thr Val Glu Arg Thr Pro Glu Glu Glu Lys Leu His Arg Asp Val Phe
      245      250      255
Leu Pro Ser Val Asp Asn Met Lys Leu Pro Glu Met Thr Ala Pro Leu
      260      265      270
Pro Pro Leu Ser Gly Leu Ala Leu Phe Leu Ile Val Phe Phe Ser Leu
      275      280      285
Val Phe Ser Val Phe Ala Ile Val Ile Gly Ile Ile Leu Tyr Asn Lys
      290      295      300
Trp Gln Glu Gln Ser Arg Lys Arg Phe Tyr
      305      310      314

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<210> 2379
<211> 192
<212> PRT
<213> Homo sapiens

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<400> 2379
Ala Ala Ala Ala Ser His Arg Ser Arg Ala Arg Ser Arg Pro Arg Arg
  1      5      10      15
Val Ser Ser Gly Pro Ala Pro Arg Arg Ala Gln Ser Ser Ala Gly Arg
      20      25      30
Val Ala Ser Gly Leu Asp Ser Ala Pro Leu Cys Thr Met Ala Arg Ala
      35      40      45
Leu Cys Arg Leu Pro Arg Arg Gly Leu Trp Leu Leu Leu Ala His His
      50      55      60
Leu Phe Met Thr Thr Ala Cys Gln Glu Ala Asn Tyr Gly Ala Leu Leu
      65      70      75      80
Arg Glu Leu Cys Leu Thr Gln Phe Gln Val Asp Met Glu Ala Val Gly
      85      90      95
Glu Thr Leu Trp Cys Asp Trp Gly Arg Thr Ile Arg Ser Tyr Arg Glu
      100      105      110
Leu Ala Asp Cys Thr Trp His Met Ala Glu Lys Leu Gly Cys Phe Trp
      115      120      125
Pro Asn Ala Glu Val Asp Arg Phe Phe Leu Ala Val His Gly Arg Tyr
      130      135      140
Phe Arg Ser Cys Pro Ile Ser Gly Arg Ala Val Arg Asp Pro Pro Gly
      145      150      155      160
Ser Ile Leu Tyr Pro Phe Ile Val Val Pro Ile Thr Val Thr Leu Leu
      165      170      175
Val Thr Ala Leu Val Val Trp Gln Ser Lys Arg Thr Glu Gly Ile Val
      180      185      190      192

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<210> 2380
<211> 326
<212> PRT
<213> Homo sapiens

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<400> 2380

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Asp Ser Ser Thr Val Lys Gly Gly Ser Glu Ser Arg His Leu Cys Leu
 1          5          10          15
Ile Pro Asp Leu Lys Gly Lys Ala Arg Thr Arg Glu Ala Ser Ser Gly
 20          25          30
Ser Arg Thr Cys Gly Arg Arg Thr Ser Leu Cys Thr Ser Ala Lys Ser
 35          40          45
Ser Trp Thr Tyr Arg Ser Gly Arg Leu Ser Trp Gln Ser Ile Lys Gly
 50          55          60
Thr His Leu Thr Ile Thr Gln Ala Leu Arg Gln Pro Leu His Arg Ala
 65          70          75          80
Pro Leu Leu Pro Gly Gln Leu Cys Trp Ser Pro Arg Pro Leu Glu Lys
 85          90          95
Asn Lys Ala Met Gly Arg Pro Leu Leu Leu Pro Leu Leu Leu Leu
100          105          110
Gln Pro Pro Ala Phe Leu Gln Pro Gly Gly Ser Thr Gly Ser Gly Pro
115          120          125
Ser Tyr Leu Tyr Gly Val Thr Gln Pro Lys His Leu Ser Ala Ser Met
130          135          140
Gly Gly Ser Val Glu Ile Pro Phe Ser Phe Tyr Tyr Pro Trp Glu Leu
145          150          155          160
Ala Ile Val Pro Asn Val Arg Ile Ser Trp Arg Arg Gly His Phe His
165          170          175
Gly Gln Ser Phe Tyr Ser Thr Arg Pro Pro Ser Ile His Lys Asp Tyr
180          185          190
Val Asn Arg Leu Phe Leu Asn Trp Thr Glu Gly Gln Glu Ser Gly Phe
195          200          205
Leu Arg Ile Ser Asn Leu Arg Lys Glu Asp Gln Ser Val Tyr Phe Cys
210          215          220
Arg Val Glu Leu Asp Thr Arg Arg Ser Gly Arg Gln Gln Leu Gln Ser
225          230          235          240
Ile Lys Gly Thr Lys Leu Thr Ile Thr Gln Ala Val Thr Thr Thr Thr
245          250          255
Thr Trp Arg Pro Ser Ser Thr Thr Thr Ile Ala Gly Leu Arg Val Thr
260          265          270
Glu Ser Lys Gly His Ser Glu Ser Trp His Leu Ser Leu Asp Thr Ala
275          280          285
Ile Arg Val Ala Leu Ala Val Ala Val Leu Lys Thr Val Ile Leu Gly
290          295          300
Leu Leu Cys Leu Leu Leu Leu Trp Trp Arg Arg Arg Lys Gly Ser Arg
305          310          315          320
Ala Pro Ser Ser Asp Phe
325 326

```

<210> 2381

<211> 188

<212> PRT

<213> Homo sapiens

<400> 2381

```

Arg Arg Thr Ala Gly Ile Tyr Pro Cys Phe Pro Lys Pro Gly Arg Thr
 1          5          10          15
Arg His Ala Leu Cys Ser Val Val Leu Leu Leu Thr Gly Gln Leu
 20          25          30
Ala Phe Asp Asp Phe Gln Glu Ser Cys Ala Met Met Trp Gln Lys Tyr
 35          40          45
Ala Gly Ser Arg Arg Ser Met Pro Leu Gly Ala Arg Ile Leu Phe His
 50          55          60
Gly Val Phe Tyr Ala Gly Gly Phe Ala Ile Val Tyr Tyr Leu Ile Gln
 65          70          75          80
Lys Phe His Ser Arg Ala Leu Tyr Tyr Lys Leu Ala Val Glu Gln Leu
 85          90          95

```

Gln Ser His Pro Glu Ala Gln Glu Ala Leu Gly Pro Pro Leu Asn Ile
 100 105 110
 His Tyr Leu Lys Leu Ile Asp Arg Glu Asn Phe Val Asp Ile Val Asp
 115 120 125
 Ala Lys Leu Lys Ile Pro Val Ser Gly Ser Lys Ser Glu Gly Leu Leu
 130 135 140
 Tyr Val His Ser Ser Arg Gly Gly Pro Phe Gln Arg Trp His Leu Asp
 145 150 155 160
 Glu Val Phe Leu Glu Leu Lys Asp Gly Gln Gln Ile Pro Val Phe Lys
 165 170 175
 Leu Ser Gly Glu Asn Gly Asp Glu Val Lys Lys Glu
 180 185 188

<210> 2382
 <211> 532
 <212> PRT
 <213> Homo sapiens

<400> 2382
 Arg Arg Arg Pro Arg Leu Leu Pro Gly Ala Glu Pro Cys Glu Pro Arg
 1 5 10 15
 Val Gly Pro Arg Arg Ala Asp Met Gly Cys Ser Ala Lys Ala Arg Trp
 20 25 30
 Ala Ala Gly Ala Leu Gly Val Ala Gly Leu Leu Cys Ala Val Leu Gly
 35 40 45
 Ala Val Met Ile Val Met Val Pro Ser Leu Ile Lys Gln Gln Val Leu
 50 55 60
 Lys Asn Val Arg Ile Asp Pro Ser Ser Leu Ser Phe Asn Met Trp Lys
 65 70 75 80
 Glu Ile Pro Ile Pro Phe Tyr Leu Ser Val Tyr Phe Phe Asp Val Met
 85 90 95
 Asn Pro Ser Glu Ile Leu Lys Gly Glu Lys Pro Gln Val Arg Glu Arg
 100 105 110
 Gly Pro Tyr Val Tyr Arg Glu Phe Arg His Lys Ser Asn Ile Thr Phe
 115 120 125
 Asn Asn Asn Asp Thr Val Ser Phe Leu Glu Tyr Arg Thr Phe Gln Phe
 130 135 140
 Gln Pro Ser Lys Ser His Gly Ser Glu Ser Asp Tyr Ile Val Met Pro
 145 150 155 160
 Asn Ile Leu Val Leu Gly Ala Ala Val Met Met Glu Asn Lys Pro Met
 165 170 175
 Thr Leu Lys Leu Ile Met Thr Leu Ala Phe Thr Thr Leu Gly Glu Arg
 180 185 190
 Ala Phe Met Asn Arg Thr Val Gly Glu Ile Met Trp Gly Tyr Lys Asp
 195 200 205
 Pro Leu Val Asn Leu Ile Asn Lys Tyr Phe Pro Gly Met Phe Pro Phe
 210 215 220
 Lys Asp Lys Phe Gly Leu Phe Ala Glu Leu Asn Asn Ser Asp Ser Gly
 225 230 235 240
 Leu Phe Thr Gly Phe Thr Gly Val Gln Asn Ile Ser Arg Ile His Leu
 245 250 255
 Val Asp Lys Trp Asn Gly Leu Ser Lys Val Asp Phe Trp His Ser Asp
 260 265 270
 Gln Cys Asn Met Ile Asn Gly Thr Ser Gly Gln Met Trp Pro Pro Phe
 275 280 285
 Met Thr Pro Glu Ser Ser Leu Glu Phe Tyr Ser Pro Glu Ala Cys Arg
 290 295 300
 Ser Met Lys Leu Met Tyr Lys Glu Ser Gly Val Phe Glu Gly Ile Pro
 305 310 315 320
 Thr Tyr Arg Phe Val Ala Pro Lys Thr Leu Phe Ala Asn Gly Ser Ile
 325 330 335

Tyr Pro Pro Asn Glu Gly Phe Cys Pro Cys Leu Glu Ser Gly Ile Gln
 340 345 350
 Asn Val Ser Thr Cys Arg Phe Ser Ala Pro Leu Phe Leu Ser His Pro
 355 360 365
 His Phe Leu Asn Ala Asp Pro Val Leu Ala Glu Ala Val Thr Gly Leu
 370 375 380
 His Pro Asn Gln Glu Ala His Ser Leu Phe Leu Asp Ile His Pro Val
 385 390 395 400
 Thr Gly Ile Pro Met Asn Cys Ser Val Lys Leu Gln Leu Ser Leu Tyr
 405 410 415
 Met Lys Ser Val Ala Gly Ile Gly Gln Thr Gly Lys Ile Glu Pro Val
 420 425 430
 Val Leu Pro Leu Leu Trp Phe Ala Glu Ser Gly Ala Met Glu Gly Glu
 435 440 445
 Thr Leu His Thr Phe Tyr Thr Gln Leu Val Leu Met Pro Lys Val Met
 450 455 460
 His Tyr Ala Gln Tyr Val Leu Ala Leu Gly Cys Val Leu Leu Leu
 465 470 475 480
 Val Pro Val Ile Cys Gln Ile Arg Ser Gln Glu Lys Cys Tyr Leu Phe
 485 490 495
 Trp Ser Ser Ser Lys Lys Gly Ser Lys Asp Lys Glu Ala Ile Gln Ala
 500 505 510
 Tyr Ser Glu Ser Leu Met Thr Ser Ala Pro Lys Gly Ser Val Leu Gln
 515 520 525
 Glu Ala Lys Leu
 530 532

<210> 2383

<211> 57

<212> PRT

<213> Homo sapiens

<400> 2383

Ala His Leu Pro Asp Thr Leu Leu Leu Pro Pro His Ser Pro Thr Val
 1 5 10 15
 Pro Thr Pro Lys Ser Phe Gln Cys Ser Gln Lys Ala Cys Phe Ser Arg
 20 25 30
 Ser Phe Cys Leu Leu Leu Ser Leu Val Ser Ser Ser Leu Val Ser Leu
 35 40 45
 Ser Leu Cys Pro Pro Leu Thr Gln Ala
 50 55 57

<210> 2384

<211> 158

<212> PRT

<213> Homo sapiens

<400> 2384

Val Thr Thr Ser Cys Ile Ile Pro Phe Ala Phe Gly Leu Gly Val Arg
 1 5 10 15
 Ala Ser Glu Arg Leu Ala Glu Ile Asp Met Pro Tyr Leu Leu Lys Tyr
 20 25 30
 Gln Pro Met Met Gln Thr Ile Gly Gln Lys Tyr Cys Met Asp Pro Ala
 35 40 45
 Val Ile Ala Gly Val Leu Ser Arg Lys Ser Pro Gly Asp Lys Ile Leu
 50 55 60
 Val Asn Met Gly Asp Arg Thr Ser Met Val Gln Asp Pro Gly Ser Gln
 65 70 75 80

Ala Pro Thr Ser Trp Ile Ser Glu Ser Gln Val Phe Gln Thr Thr Glu
 85 90 95
 Val Leu Thr Thr Arg Ile Thr Glu Leu Gln Arg Arg Phe Pro Thr Trp
 100 105 110
 Thr Pro Asp Gln Tyr Leu Arg Gly Gly Leu Cys Ala Tyr Ser Gly Gly
 115 120 125
 Ala Gly Tyr Val Arg Ser Ser Gln Asp Leu Ser Cys Asp Phe Cys Asn
 130 135 140
 Asp Val Leu Ala Arg Ala Lys Tyr Leu Lys Arg His Gly Phe
 145 150 155 158

<210> 2385
 <211> 180
 <212> PRT
 <213> Homo sapiens

<400> 2385
 Ala Met Ala Ser Thr Leu Glu Tyr Ser Pro Ser Pro Leu Arg Arg Leu
 1 5 10 15
 Val Gly Pro Ala Ala Gly Phe Ser Arg Ala Ala Arg Ala Asp Leu Ser
 20 25 30
 Trp Asp Pro Met Ala Phe Phe Thr Gly Leu Trp Gly Pro Phe Thr Cys
 35 40 45
 Val Ser Arg Val Leu Ser His His Cys Phe Ser Thr Thr Gly Ser Leu
 50 55 60
 Ser Ala Ile Gln Lys Met Thr Arg Val Arg Val Val Asp Asn Ser Ala
 65 70 75 80
 Leu Gly Asn Ser Pro Tyr His Arg Ala Pro Arg Cys Ile His Val Tyr
 85 90 95
 Lys Lys Asn Gly Val Gly Lys Val Gly Asp Gln Ile Leu Leu Ala Ile
 100 105 110
 Lys Gly Gln Lys Lys Lys Ala Leu Ile Val Gly His Cys Met Pro Gly
 115 120 125
 Pro Arg Met Thr Pro Arg Phe Asp Ser Asn Asn Val Val Leu Ile Glu
 130 135 140
 Asp Asn Gly Asn Pro Val Gly Thr Arg Ile Lys Thr Pro Ile Pro Thr
 145 150 155 160
 Ser Leu Arg Lys Arg Glu Gly Glu Tyr Ser Lys Val Leu Ala Ile Ala
 165 170 175
 Gln Asn Phe Val
 180

<210> 2386
 <211> 187
 <212> PRT
 <213> Homo sapiens

<400> 2386
 Pro Thr Arg Ala His Ser Phe Asp Leu Cys Cys Ser Pro Cys Arg Arg
 1 5 10 15
 Arg Leu Leu Gly Arg Glu Glu Ala Gly Glu Glu Pro Thr Ser Pro Val
 20 25 30
 Thr Gln Tyr Leu Gln Pro Arg Ser Pro Glu Glu Cys Lys Met Phe Ala
 35 40 45
 Cys Ala Lys Leu Ala Cys Thr Pro Ser Leu Ile Arg Ala Gly Ser Arg
 50 55 60
 Val Ala Tyr Arg Pro Ile Ser Ala Ser Val Leu Ser Arg Pro Glu Ala
 65 70 75 80


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Ser Arg Thr Gly Glu Gly Ser Thr Val Phe Asn Gly Ala Gln Asn Gly
      85          90          95
Val Ser Gln Leu Ile Gln Arg Glu Phe Gln Thr Ser Ala Ile Ser Arg
      100        105        110
Asp Ile Asp Thr Ala Ala Lys Phe Ile Gly Ala Gly Ala Ala Thr Val
      115        120        125
Gly Val Ala Gly Ser Gly Ala Gly Ile Gly Thr Val Phe Gly Ser Leu
      130        135        140
Ile Ile Gly Tyr Ala Arg Asn Pro Ser Leu Lys Gln Gln Leu Phe Ser
      145        150        155        160
Tyr Ala Ile Leu Gly Phe Ala Leu Ser Glu Ala Met Gly Leu Phe Cys
      165        170        175
Leu Met Val Ala Phe Leu Ile Leu Phe Ala Met
      180        185        187

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<210> 2387
<211> 787
<212> PRT
<213> Homo sapiens

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<400> 2387
Ser Pro Gly Pro Ser Leu Pro Glu Ser Ala Glu Ser Leu Asp Gly Ser
  1      5      10      15
Gln Glu Asp Lys Pro Arg Gly Ser Cys Ala Glu Pro Thr Phe Thr Asp
      20      25      30
Thr Gly Met Val Ala His Ile Asn Asn Ser Arg Leu Lys Ala Lys Gly
      35      40      45
Val Gly Gln His Asp Asn Ala Gln Asn Phe Gly Asn Gln Ser Phe Glu
      50      55      60
Glu Leu Arg Ala Ala Cys Leu Arg Lys Gly Glu Leu Phe Glu Asp Pro
      65      70      75      80
Leu Phe Pro Ala Glu Pro Ser Ser Leu Gly Phe Lys Asp Leu Gly Pro
      85      90      95
Asn Ser Lys Asn Val Gln Asn Ile Ser Trp Gln Arg Pro Lys Asp Ile
      100     105     110
Ile Asn Asn Pro Leu Phe Ile Met Asp Gly Ile Ser Pro Thr Asp Ile
      115     120     125
Cys Gln Gly Ile Leu Gly Asp Cys Trp Leu Leu Ala Ala Ile Gly Ser
      130     135     140
Leu Thr Thr Cys Pro Lys Leu Leu Tyr Arg Val Val Pro Arg Gly Gln
      145     150     155     160
Ser Phe Lys Lys Asn Tyr Ala Gly Ile Phe His Phe Gln Ile Trp Gln
      165     170     175
Phe Gly Gln Trp Val Asn Val Val Val Asp Asp Arg Leu Pro Thr Lys
      180     185     190
Asn Asp Lys Leu Val Phe Val His Ser Thr Glu Arg Ser Glu Phe Trp
      195     200     205
Ser Ala Leu Leu Glu Lys Ala Tyr Ala Lys Leu Ser Gly Ser Tyr Glu
      210     215     220
Ala Leu Ser Gly Gly Ser Thr Met Glu Gly Leu Glu Asp Phe Thr Gly
      225     230     235     240
Gly Val Ala Gln Ser Phe Gln Leu Gln Arg Pro Pro Gln Asn Leu Leu
      245     250     255
Arg Leu Leu Arg Lys Ala Val Glu Arg Ser Ser Leu Met Gly Cys Ser
      260     265     270
Ile Glu Val Thr Ser Asp Ser Glu Leu Glu Ser Met Thr Asp Lys Met
      275     280     285
Leu Val Arg Gly His Ala Tyr Ser Val Thr Gly Leu Gln Asp Val His
      290     295     300
Tyr Arg Gly Lys Met Glu Thr Leu Ile Arg Val Arg Asn Pro Trp Gly
      305     310     315     320

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Arg Ile Glu Trp Asn Gly Ala Trp Ser Asp Ser Ala Arg Glu Trp Glu
 325 330 335
 Glu Val Ala Ser Asp Ile Gln Met Gln Leu Leu His Lys Thr Glu Asp
 340 345 350
 Gly Glu Phe Trp Met Ser Tyr Gln Asp Phe Leu Asn Asn Phe Thr Leu
 355 360 365
 Leu Glu Ile Cys Asn Leu Thr Pro Asp Thr Leu Ser Gly Asp Tyr Lys
 370 375 380
 Ser Tyr Trp His Thr Thr Phe Tyr Glu Gly Ser Trp Arg Thr Gly Ser
 385 390 395 400
 Ser Ala Gly Gly Cys Arg Asn His Pro Gly Thr Phe Trp Thr Asn Pro
 405 410 415
 Gln Phe Lys Ile Ser Leu Pro Glu Gly Asp Asp Pro Glu Asp Asp Ala
 420 425 430
 Glu Gly Asn Val Val Val Cys Thr Cys Leu Val Ala Leu Met Gln Lys
 435 440 445
 Asn Trp Arg His Ala Arg Gln Gln Gly Ala Gln Leu Gln Thr Ile Gly
 450 455 460
 Phe Val Leu Tyr Ala Val Pro Lys Glu Phe Gln Asn Ile Gln Asp Val
 465 470 475 480
 His Leu Lys Lys Glu Phe Phe Thr Lys Tyr Gln Asp His Gly Phe Ser
 485 490 495
 Glu Ile Phe Thr Asn Ser Arg Glu Val Ser Ser Gln Leu Arg Leu Pro
 500 505 510
 Pro Gly Glu Tyr Ile Ile Ile Pro Ser Thr Phe Glu Pro His Arg Asp
 515 520 525
 Ala Asp Phe Leu Leu Arg Val Phe Thr Glu Lys His Ser Glu Ser Trp
 530 535 540
 Glu Leu Asp Glu Val Asn Tyr Ala Glu Gln Leu Gln Glu Glu Lys Val
 545 550 555 560
 Ser Glu Asp Asp Met Asp Gln Asp Phe Leu His Leu Phe Lys Ile Val
 565 570 575
 Ala Gly Glu Gly Lys Glu Ile Gly Val Tyr Glu Leu Gln Arg Leu Leu
 580 585 590
 Asn Arg Met Ala Ile Lys Phe Lys Ser Phe Lys Thr Lys Gly Phe Gly
 595 600 605
 Leu Asp Ala Cys Arg Cys Met Ile Asn Leu Met Asp Lys Asp Gly Ser
 610 615 620
 Gly Lys Leu Gly Leu Leu Glu Phe Lys Ile Leu Trp Lys Lys Leu Lys
 625 630 635 640
 Lys Trp Met Asp Ile Phe Arg Glu Cys Asp Gln Asp His Ser Gly Thr
 645 650 655
 Leu Asn Ser Tyr Glu Met Arg Leu Val Ile Glu Lys Ala Gly Ile Lys
 660 665 670
 Leu Asn Asn Lys Val Met Gln Val Leu Val Ala Arg Tyr Ala Asp Asp
 675 680 685
 Asp Leu Ile Ile Asp Phe Asp Ser Phe Ile Ser Cys Phe Leu Arg Leu
 690 695 700
 Lys Thr Met Phe Thr Phe Phe Leu Thr Met Asp Pro Lys Asn Thr Gly
 705 710 715 720
 His Ile Cys Leu Ser Leu Glu Gln Val Leu Gly Glu Gly Trp Glu Gly
 725 730 735
 Ile Cys Arg Ile Ala Pro Ala Cys Pro Ser Thr Pro Pro Pro Ser
 740 745 750
 Ser Asp Val Pro Gly Pro Ala Ser Cys Pro Arg Leu Phe Pro Pro Trp
 755 760 765
 Asp Leu Leu Pro Val Ser Thr Val Ala Ala Asp Asp His Val Gly Ile
 770 775 780
 Glu Ala Leu
 785 787

<211> 496
 <212> PRT
 <213> Homo sapiens

<400> 2388
 Arg Ser Arg Met Ala Arg Ala Pro Leu Gly Val Leu Leu Leu Leu Gly
 1 5 10 15
 Leu Leu Gly Arg Gly Val Gly Lys Asn Glu Glu Leu Arg Leu Tyr His
 20 25 30
 His Leu Phe Asn Asn Tyr Asp Pro Gly Ser Arg Pro Val Arg Glu Pro
 35 40 45
 Glu Asp Thr Val Thr Ile Ser Leu Lys Val Thr Leu Thr Asn Leu Ile
 50 55 60
 Ser Leu Asn Glu Lys Glu Thr Leu Thr Thr Ser Val Trp Ile Gly
 65 70 75 80
 Ile Asp Trp Gln Asp Tyr Arg Leu Asn Tyr Ser Lys Asp Asp Phe Gly
 85 90 95
 Gly Ile Glu Thr Leu Arg Val Pro Ser Glu Leu Val Trp Leu Pro Glu
 100 105 110
 Ile Val Leu Glu Asn Asn Ile Asp Gly Gln Phe Gly Val Ala Tyr Asp
 115 120 125
 Ala Asn Val Leu Val Tyr Glu Gly Gly Ser Val Thr Trp Leu Pro Pro
 130 135 140
 Ala Ile Tyr Arg Ser Val Cys Ala Val Glu Val Thr Tyr Phe Pro Phe
 145 150 155 160
 Asp Trp Gln Asn Cys Ser Leu Ile Phe Arg Ser Gln Thr Tyr Asn Ala
 165 170 175
 Glu Glu Val Glu Phe Thr Phe Ala Val Asp Asn Asp Gly Lys Thr Ile
 180 185 190
 Asn Lys Ile Asp Ile Asp Thr Glu Ala Tyr Thr Glu Asn Gly Glu Trp
 195 200 205
 Ala Ile Asp Phe Cys Pro Gly Val Ile Arg Arg His His Gly Gly Ala
 210 215 220
 Thr Asp Gly Pro Gly Glu Thr Asp Val Ile Tyr Ser Leu Ile Ile Arg
 225 230 235 240
 Arg Lys Pro Leu Phe Tyr Val Ile Asn Ile Ile Val Pro Cys Val Leu
 245 250 255
 Ile Ser Gly Leu Val Leu Leu Ala Tyr Phe Leu Pro Ala Gln Ala Gly
 260 265 270
 Gly Gln Lys Cys Thr Val Ser Ile Asn Val Leu Leu Ala Gln Thr Val
 275 280 285
 Phe Leu Phe Leu Ile Ala Gln Lys Ile Pro Glu Thr Ser Leu Ser Val
 290 295 300
 Pro Leu Leu Gly Arg Phe Leu Ile Phe Val Met Val Val Ala Thr Leu
 305 310 315 320
 Ile Val Met Asn Cys Val Ile Val Leu Asn Val Ser Gln Arg Thr Pro
 325 330 335
 Thr Thr His Ala Met Ser Pro Arg Leu Arg His Val Leu Leu Glu Leu
 340 345 350
 Leu Pro Arg Leu Leu Gly Ser Pro Pro Pro Glu Ala Pro Arg Ala
 355 360 365
 Ala Ser Pro Pro Arg Arg Ala Ser Ser Val Gly Leu Leu Leu Arg Ala
 370 375 380
 Glu Glu Leu Ile Leu Lys Lys Pro Arg Ser Glu Leu Val Phe Glu Gly
 385 390 395 400
 Gln Arg His Arg Gln Gly Thr Trp Thr Ala Ala Phe Cys Gln Ser Leu
 405 410 415
 Gly Ala Ala Ala Pro Glu Val Arg Cys Cys Val Asp Ala Val Asn Phe
 420 425 430
 Val Ala Glu Ser Thr Arg Asp Gln Glu Ala Thr Gly Glu Glu Val Ser
 435 440 445
 Asp Trp Val Arg Met Gly Asn Ala Leu Asp Asn Ile Cys Phe Trp Ala
 450 455 460

Ala Leu Val Leu Phe Ser Val Gly Ser Ser Leu Ile Phe Leu Gly Ala
 465 470 475 480
 Tyr Phe Asn Arg Val Pro Asp Leu Pro Tyr Ala Pro Cys Ile Gln Pro
 485 490 495 496

<210> 2389
 <211> 300
 <212> PRT
 <213> Homo sapiens

<400> 2389
 Pro Gly Arg Glu Arg Pro Gly Gly Gly Gly Ala Arg Arg Arg Pro Gln
 1 5 10 15
 His Leu Pro Ala Leu Leu Pro Ser Glu Arg Pro Asp Cys Ala Thr Leu
 20 25 30
 Gln Ala Met Glu Asn Glu Leu Pro Val Pro His Thr Ser Ser Ser Ala
 35 40 45
 Cys Ala Thr Ser Ser Thr Ser Gly Ala Ser Ser Ser Ser Gly Cys Asn
 50 55 60
 Asn Ser Ser Ser Gly Gly Ser Gly Arg Pro Thr Gly Pro Gln Ile Ser
 65 70 75 80
 Val Tyr Ser Gly Ile Pro Asp Arg Gln Thr Val Gln Val Ile Gln Gln
 85 90 95
 Ala Leu His Arg Gln Pro Ser Thr Ala Ala Gln Tyr Leu Gln Gln Met
 100 105 110
 Tyr Ala Ala Gln Gln Gln His Leu Met Leu Gln Thr Ala Ala Leu Gln
 115 120 125
 Gln Gln His Leu Ser Ser Ala Gln Leu Gln Ser Leu Ala Ala Val Gln
 130 135 140
 Gln Ala Ser Leu Val Ser Asn Arg Gln Gly Ser Thr Ser Gly Ser Asn
 145 150 155 160
 Val Ser Ala Gln Ala Pro Ala Gln Ser Ser Ser Ile Asn Leu Ala Ala
 165 170 175
 Ser Pro Ala Ala Ala Gln Leu Leu Asn Arg Ala Gln Ser Val Asn Ser
 180 185 190
 Ala Ala Ala Ser Gly Ile Ala Gln Gln Ala Val Leu Leu Gly Asn Thr
 195 200 205
 Ser Ser Pro Ala Leu Thr Ala Ser Gln Ala Gln Met Tyr Leu Arg Ala
 210 215 220
 Gln Met Leu Ile Phe Thr Pro Thr Ala Thr Val Ala Thr Val Gln Pro
 225 230 235 240
 Glu Leu Gly Thr Gly Ser Pro Ala Arg Pro Pro Thr Pro Ala Gln Val
 245 250 255
 Gln Asn Leu Thr Leu Arg Thr Gln Gln Thr Pro Ala Ala Ala Ser
 260 265 270
 Gly Pro Thr Pro Thr Gln Pro Val Leu Pro Ser Leu Ala Leu Lys Pro
 275 280 285
 Thr Pro Gly Gly Ser Gln Pro Leu Pro Thr Pro Ala
 290 295 300

<210> 2390
 <211> 430
 <212> PRT
 <213> Homo sapiens

<400> 2390

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Ala Ser Gln Leu Ala Phe Gly Gly Lys Leu Thr Ser Thr Pro Ser Arg
 1           5           10           15
Asp Phe Gln Gly Cys Gly Arg Gly Ala Val Thr Cys Cys Ser Phe His
 20           25           30
Glu His Arg His Gln Ser Gly Arg Cys Leu Ser Thr Gly Met Ala Pro
 35           40           45
Asn Leu Lys Gly Arg Pro Arg Lys Lys Lys Pro Cys Pro Gln Arg Arg
 50           55           60
Asp Ser Phe Ser Gly Val Lys Asp Ser Asn Asn Asn Ser Asp Gly Lys
 65           70           75           80
Ala Val Ala Lys Val Lys Cys Glu Ala Arg Ser Ala Leu Thr Lys Pro
 85           90           95
Lys Asn Asn His Asn Cys Lys Lys Val Ser Asn Glu Glu Lys Pro Lys
100           105           110
Val Ala Ile Gly Glu Glu Cys Arg Ala Asp Glu Gln Ala Phe Leu Val
115           120           125
Ala Leu Tyr Lys Tyr Met Lys Glu Arg Lys Thr Pro Ile Glu Arg Ile
130           135           140
Pro Tyr Leu Gly Phe Lys Gln Ile Asn Leu Trp Thr Met Phe Gln Ala
145           150           155           160
Ala Gln Lys Leu Gly Tyr Glu Thr Ile Thr Ala Arg Arg Gln Trp
165           170           175
Lys His Ile Tyr Asp Glu Leu Gly Gly Asn Pro Gly Ser Thr Ser Ala
180           185           190
Ala Thr Cys Thr Arg Arg His Tyr Glu Arg Leu Ile Leu Pro Tyr Glu
195           200           205
Arg Phe Ile Lys Gly Glu Glu Asp Lys Pro Leu Pro Pro Ile Lys Pro
210           215           220
Arg Lys Gln Glu Asn Ser Ser Gln Glu Asn Glu Asn Lys Thr Lys Val
225           230           235           240
Ser Gly Thr Lys Arg Ile Lys His Glu Ile Pro Lys Ser Lys Lys Glu
245           250           255
Lys Glu Asn Ala Pro Lys Pro Gln Asp Ala Ala Glu Val Ser Ser Glu
260           265           270
Gln Glu Lys Glu Gln Glu Thr Leu Ile Ser Gln Lys Ser Ile Pro Glu
275           280           285
Pro Leu Pro Ala Ala Asp Met Lys Lys Lys Ile Glu Gly Tyr Gln Glu
290           295           300
Phe Ser Ala Lys Pro Leu Ala Ser Arg Val Asp Pro Glu Lys Asp Asn
305           310           315           320
Glu Thr Asp Gln Gly Ser Asn Ser Glu Lys Val Ala Glu Glu Ala Gly
325           330           335
Glu Lys Gly Pro Thr Pro Pro Leu Pro Ser Ala Pro Leu Ala Pro Glu
340           345           350
Lys Asp Ser Ala Leu Val Pro Gly Ala Ser Lys Gln Pro Leu Thr Ser
355           360           365
Pro Ser Ala Leu Val Asp Ser Lys Gln Glu Ser Lys Leu Cys Cys Phe
370           375           380
Thr Glu Ser Pro Glu Ser Glu Pro Gln Glu Ala Ser Phe Pro Arg Leu
385           390           395           400
Pro His His Thr Gly His Arg Trp Gln Thr Arg Met Arg Arg Arg Met
405           410           415
Thr Asn Cys Pro Pro Trp Gln Ile Thr Leu Pro Thr Ala Pro
420           425           430

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<210> 2391

<211> 459

<212> PRT

<213> Homo sapiens

<400> 2391

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Leu Leu Gln Glu Met Cys Thr Lys Thr Ile Pro Val Leu Trp Gly Cys
 1           5           10           15
Phe Leu Leu Trp Asn Leu Tyr Val Ser Ser Ser Gln Thr Ile Tyr Pro
      20           25           30
Gly Ile Lys Ala Arg Ile Thr Gln Arg Ala Leu Asp Tyr Gly Val Gln
      35           40           45
Ala Gly Met Lys Met Ile Glu Gln Met Leu Lys Glu Lys Lys Leu Pro
      50           55           60
Asp Leu Ser Gly Ser Glu Ser Leu Glu Phe Leu Lys Val Asp Tyr Val
      65           70           75           80
Asn Tyr Asn Phe Ser Asn Ile Lys Ile Ser Ala Phe Ser Phe Pro Asn
      85           90           95
Thr Ser Leu Ala Phe Val Pro Gly Val Gly Ile Lys Ala Leu Thr Asn
      100          105          110
His Gly Thr Ala Asn Ile Ser Thr Asp Trp Gly Phe Glu Ser Pro Leu
      115          120          125
Phe Val Leu Tyr Asn Ser Phe Ala Glu Pro Met Glu Lys Pro Ile Leu
      130          135          140
Lys Asn Leu Asn Glu Met Leu Cys Pro Ile Ile Ala Ser Glu Val Lys
      145          150          155          160
Ala Leu Asn Ala Asn Leu Ser Thr Leu Glu Val Leu Thr Lys Ile Asp
      165          170          175
Asn Tyr Thr Leu Leu Asp Tyr Ser Leu Ile Ser Ser Pro Glu Ile Thr
      180          185          190
Glu Asn Tyr Leu Asp Leu Asn Leu Lys Gly Val Phe Tyr Pro Leu Glu
      195          200          205
Asn Leu Thr Asp Pro Pro Phe Ser Pro Val Pro Phe Val Leu Pro Glu
      210          215          220
Arg Ser Asn Ser Met Leu Tyr Ile Gly Ile Ala Glu Tyr Phe Phe Lys
      225          230          235          240
Ser Ala Ser Phe Ala His Phe Thr Ala Gly Val Phe Asn Val Thr Leu
      245          250          255
Ser Thr Glu Glu Ile Ser Asn His Phe Val Gln Asn Ser Gln Gly Leu
      260          265          270
Gly Asn Val Leu Ser Arg Ile Ala Glu Ile Tyr Ile Leu Ser Gln Pro
      275          280          285
Phe Met Val Arg Ile Met Ala Thr Glu Pro Pro Ile Ile Asn Leu Gln
      290          295          300
Pro Gly Asn Phe Thr Leu Asp Ile Pro Ala Ser Ile Met Met Leu Thr
      305          310          315          320
Gln Pro Lys Asn Ser Thr Val Glu Thr Ile Val Ser Met Asp Phe Val
      325          330          335
Ala Ser Thr Ser Val Gly Leu Val Ile Leu Gly Gln Arg Leu Val Cys
      340          345          350
Ser Leu Ser Leu Asn Arg Phe Arg Leu Ala Leu Pro Glu Ser Asn Arg
      355          360          365
Ser Asn Ile Glu Val Leu Arg Phe Glu Asn Ile Leu Ser Ser Ile Leu
      370          375          380
His Phe Gly Val Leu Pro Leu Ala Asn Ala Lys Leu Gln Gln Gly Phe
      385          390          395          400
Pro Leu Pro Asn Pro His Lys Phe Leu Phe Val Asn Ser Asp Ile Glu
      405          410          415
Val Leu Glu Gly Phe Leu Leu Ile Ser Thr Asp Leu Lys Tyr Glu Thr
      420          425          430
Ser Ser Lys Gln Gln Pro Ser Phe His Val Trp Glu Gly Leu Asn Leu
      435          440          445
Ile Ser Arg Gln Trp Arg Gly Lys Ser Ala Pro
      450          455          459

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<210> 2392

<211> 122

<212> PRT

<213> Homo sapiens

<400> 2392

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Ala Arg Arg Ile Ala Arg Thr Arg Glu Ser Lys Ala Ala Val Ser Gln
 1           5           10           15
Asp Asn Val Pro Ala Leu Gln Pro Gly Lys Lys Lys Lys Leu Arg Leu
          20           25           30
Gly Gly Lys Lys Lys Lys Phe Lys Phe Phe Arg Leu Pro Lys Glu Phe
          35           40           45
Lys Lys Gln Leu Met Tyr Ser Pro Ser Asn Phe Lys Lys Met Thr Ser
          50           55           60
Leu Ala Gly Asn Thr Val Gln Cys Leu Asn Lys Leu Lys Tyr Val Ile
          65           70           75           80
Tyr Ser Ala Gln Tyr Pro Ala Tyr Gly Asn Ile Thr Thr Leu Asp Met
          85           90           95
Ile Thr Ser Thr Asp His Val Leu Glu Gln Asp Phe Trp Ile Cys Phe
          100          105          110
Thr Phe Tyr Ser Val Lys Glu Arg Gln Ile
          115          120          122

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<210> 2393

<211> 114

<212> PRT

<213> Homo sapiens

<400> 2393

```

Gly Leu Lys Thr Arg Ala Pro Ala Thr Pro Thr Phe Gln Arg Glu Val
 1           5           10           15
Leu Gly Pro Ala Lys Gln Asp Met Gln Arg Arg Cys Pro Arg Ile Gly
          20           25           30
Leu Met Thr Ser Leu Leu Lys Pro Ile Lys Arg Arg Trp Arg Asp Tyr
          35           40           45
Lys Arg Trp Lys Ser Gly Gly Phe Thr Gly Glu Ser Cys His His Ala
          50           55           60
Asp Thr Leu Gly Asp Arg Gly Gly Leu Gln Gly Asp His Ser Glu Leu
          65           70           75           80
Leu Gln Trp Gln Lys Arg Ile Leu Arg Thr Glu Gly Glu Pro Ser Pro
          85           90           95
Lys Tyr Ile Ser Lys Asn Ile Phe Pro Ile Cys Ser Tyr Ile Thr Gly
          100          105          110
Phe Leu
          114

```

<210> 2394

<211> 399

<212> PRT

<213> Homo sapiens

<400> 2394

```

Gly Thr Val Lys Thr Ser Val Ala Thr Pro Ile Thr Ala Gly His Ser
 1           5           10           15
Cys Ser Ser Gly Gly Val Leu Gln Val Lys Ser Pro Ala Thr Gln Ser
          20           25           30
Gly Phe Lys Phe Thr Ser Lys Met Glu Asp Phe Asn Met Glu Ser Asp
          35           40           45
Ser Phe Glu Asp Phe Trp Lys Gly Glu Asp Leu Ser Asn Tyr Ser Tyr
          50           55           60

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Ser Ser Thr Leu Pro Pro Phe Leu Leu Asp Ala Ala Pro Cys Glu Pro
65          70          75          80
Glu Ser Leu Glu Ile Asn Lys Tyr Phe Val Val Ile Ile Tyr Ala Leu
85          90          95
Val Phe Leu Leu Ser Leu Leu Gly Asn Ser Leu Val Met Leu Val Ile
100        105        110
Leu Tyr Ser Arg Val Gly Arg Ser Val Thr Asp Val Tyr Leu Leu Asn
115        120        125
Leu Ala Leu Ala Asp Leu Leu Phe Ala Leu Thr Leu Pro Ile Trp Ala
130        135        140
Ala Ser Lys Val Asn Gly Trp Ile Phe Gly Thr Phe Leu Cys Lys Val
145        150        155        160
Val Ser Leu Leu Lys Glu Val Asn Phe Tyr Ser Gly Ile Leu Leu Leu
165        170        175
Ala Cys Ile Ser Val Asp Arg Tyr Leu Ala Ile Val His Ala Thr Arg
180        185        190
Thr Leu Thr Gln Lys Arg Tyr Leu Val Lys Phe Ile Cys Leu Ser Ile
195        200        205
Trp Gly Leu Ser Leu Leu Leu Ala Leu Pro Val Leu Leu Phe Arg Arg
210        215        220
Thr Val Tyr Ser Ser Asn Val Ser Pro Ala Cys Tyr Glu Asp Met Gly
225        230        235        240
Asn Asn Thr Ala Asn Trp Arg Met Leu Leu Arg Ile Leu Pro Gln Ser
245        250        255
Phe Gly Phe Ile Val Pro Leu Leu Ile Met Leu Phe Cys Tyr Gly Phe
260        265        270
Thr Leu Arg Thr Leu Phe Lys Ala His Met Gly Gln Lys His Arg Ala
275        280        285
Met Arg Val Ile Phe Ala Val Val Leu Ile Phe Leu Leu Cys Trp Leu
290        295        300
Pro Tyr Asn Leu Val Leu Leu Ala Asp Thr Leu Met Arg Thr Gln Val
305        310        315        320
Ile Gln Glu Thr Cys Glu Arg Arg Asn His Ile Asp Arg Ala Leu Asp
325        330        335
Ala Thr Glu Ile Leu Gly Ile Leu His Ser Cys Leu Asn Pro Leu Ile
340        345        350
Tyr Ala Phe Ile Gly Gln Lys Phe Arg His Gly Leu Leu Lys Ile Leu
355        360        365
Ala Ile His Gly Leu Ile Ser Lys Asp Ser Leu Pro Lys Asp Ser Arg
370        375        380
Pro Ser Phe Val Gly Ser Ser Ser Gly His Thr Ser Thr Thr Leu
385        390        395        399

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<210> 2395
<211> 977
<212> PRT
<213> Homo sapiens

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<400> 2395
Phe Arg Ala Asn Leu Ala Ile Thr Val Ala Asn Arg Arg Gly Ala Gln
1          5          10          15
Gly Gly Lys Met His Thr Cys Cys Pro Pro Val Thr Leu Glu Gln Asp
20        25        30
Leu His Arg Lys Met His Ser Trp Met Leu Gln Thr Leu Ala Phe Ala
35        40        45
Val Thr Ser Leu Val Leu Ser Cys Ala Glu Thr Ile Asp Tyr Tyr Gly
50        55        60
Glu Ile Cys Asp Asn Ala Cys Pro Cys Glu Glu Lys Asp Gly Ile Leu
65        70        75        80
Thr Val Ser Cys Glu Asn Arg Gly Ile Ile Ser Leu Ser Glu Ile Ser
85        90        95

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Pro	Pro	Arg	Phe	Pro	Ile	Tyr	His	Leu	Leu	Leu	Ser	Gly	Asn	Leu	Leu
Asn	Arg	Leu	Tyr	Pro	Asn	Glu	Phe	Val	Asn	Tyr	Thr	Gly	Ala	Ser	Ile
Leu	His	Leu	Gly	Ser	Asn	Val	Ile	Gln	Asp	Ile	Glu	Thr	Gly	Ala	Phe
His	Gly	Leu	Arg	Gly	Leu	Arg	Arg	Leu	His	Leu	Asn	Asn	Asn	Lys	Leu
Glu	Leu	Leu	Arg	Asp	Asp	Thr	Phe	Leu	Gly	Leu	Glu	Asn	Leu	Glu	Tyr
Leu	Gln	Val	Asp	Tyr	Asn	Tyr	Ile	Ser	Val	Ile	Glu	Pro	Asn	Ala	Phe
Gly	Lys	Leu	His	Leu	Leu	Gln	Val	Leu	Ile	Leu	Asn	Asp	Asn	Leu	Leu
Ser	Ser	Leu	Pro	Asn	Asn	Leu	Phe	Arg	Phe	Val	Pro	Leu	Thr	His	Leu
Asp	Leu	Arg	Gly	Asn	Arg	Leu	Lys	Leu	Leu	Pro	Tyr	Val	Gly	Leu	Leu
Gln	His	Met	Asp	Lys	Val	Val	Glu	Leu	Gln	Leu	Glu	Glu	Asn	Pro	Trp
Asn	Cys	Ser	Cys	Glu	Leu	Ile	Ser	Leu	Lys	Asp	Trp	Leu	Asp	Ser	Ile
Ser	Tyr	Ser	Ala	Leu	Val	Gly	Asp	Val	Val	Cys	Glu	Thr	Pro	Phe	Arg
Leu	His	Gly	Arg	Asp	Leu	Asp	Glu	Val	Ser	Lys	Gln	Glu	Leu	Cys	Pro
Arg	Arg	Leu	Ile	Ser	Asp	Tyr	Glu	Met	Arg	Pro	Gln	Thr	Pro	Leu	Ser
Thr	Thr	Gly	Tyr	Leu	His	Thr	Thr	Pro	Ala	Ser	Val	Asn	Ser	Val	Ala
Thr	Ser	Ser	Ser	Ala	Val	Tyr	Lys	Pro	Pro	Leu	Lys	Pro	Pro	Lys	Gly
Thr	Arg	Gln	Pro	Asn	Lys	Pro	Arg	Val	Arg	Pro	Thr	Ser	Arg	Gln	Pro
Ser	Lys	Asp	Leu	Gly	Tyr	Ser	Asn	Tyr	Gly	Pro	Ser	Ile	Ala	Tyr	Gln
Thr	Lys	Ser	Pro	Val	Pro	Leu	Glu	Cys	Pro	Thr	Ala	Cys	Ser	Cys	Asn
Leu	Gln	Ile	Ser	Asp	Leu	Gly	Leu	Asn	Val	Asn	Cys	Gln	Glu	Arg	Lys
Ile	Glu	Ser	Ile	Ala	Glu	Leu	Gln	Pro	Lys	Pro	Tyr	Asn	Pro	Lys	Lys
Met	Tyr	Leu	Thr	Glu	Asn	Tyr	Ile	Ala	Val	Val	Arg	Arg	Thr	Asp	Leu
Leu	Glu	Ala	Thr	Gly	Leu	Asp	Leu	Leu	His	Leu	Gly	Asn	Asn	Arg	Ile
Ser	Met	Ile	Gln	Asp	Arg	Ala	Phe	Gly	Asp	Leu	Thr	Asn	Leu	Arg	Arg
Leu	Tyr	Leu	Asn	Gly	Asn	Arg	Ile	Glu	Arg	Leu	Ser	Pro	Glu	Leu	Phe
Tyr	Gly	Leu	Gln	Ser	Leu	Gln	Tyr	Leu	Phe	Leu	Gln	Tyr	Asn	Leu	Ile
Arg	Glu	Ile	Ser	Gly	Thr	Phe	Asp	Pro	Val	Pro	Asn	Leu	Gln	Leu	
Leu	Phe	Leu	Asn	Asn	Asn	Leu	Leu	Gln	Ala	Met	Pro	Ser	Gly	Val	Phe
Ser	Gly	Leu	Thr	Leu	Leu	Arg	Leu	Asn	Leu	Arg	Ser	Asn	His	Phe	Thr
Ser	Leu	Pro	Val	Ser	Gly	Val	Leu	Asp	Gln	Leu	Lys	Ser	Leu	Ile	Gln
Ile	Asp	Leu	His	Asp	Asn	Pro	Trp	Asp	Cys	Thr	Cys	Asp	Ile	Val	Gly
Met	Lys	Leu	Trp	Val	Glu	Gln	Leu	Lys	Val	Gly	Val	Leu	Val	Asp	Glu

Val Ile Cys Lys Ala Pro Lys Lys Phe Ala Glu Thr Asp Met Arg Ser
 610 615 620
 Ile Lys Ser Glu Leu Leu Cys Pro Asp Tyr Ser Asp Val Val Val Ser
 625 630 635 640
 Thr Pro Thr Pro Ser Ser Ile Gln Val Pro Ala Arg Thr Ser Ala Val
 645 650 655
 Thr Pro Ala Val Arg Leu Asn Ser Thr Gly Ala Pro Ala Ser Leu Gly
 660 665 670
 Ala Gly Gly Gly Ala Ser Ser Val Pro Leu Ser Val Leu Ile Leu Ser
 675 680 685
 Leu Leu Val Phe Ile Met Ser Val Phe Val Ala Ala Gly Leu Phe
 690 695 700
 Val Leu Val Met Lys Arg Arg Lys Lys Asn Gln Ser Asp His Thr Ser
 705 710 715 720
 Thr Asn Asn Ser Asp Val Ser Ser Phe Asn Met Gln Tyr Ser Val Tyr
 725 730 735
 Gly Gly Gly Gly Gly Thr Gly Gly His Pro His Ala His Val His His
 740 745 750
 Arg Gly Pro Ala Leu Pro Lys Val Lys Thr Pro Ala Gly His Val Tyr
 755 760 765
 Glu Tyr Ile Pro His Pro Leu Gly His Met Cys Lys Asn Pro Ile Tyr
 770 775 780
 Arg Ser Arg Glu Gly Asn Ser Val Glu Asp Tyr Lys Asp Leu His Glu
 785 790 795 800
 Leu Lys Val Thr Tyr Ser Ser Asn His His Leu Gln Gln Gln Gln
 805 810 815
 Pro Pro Pro Pro Pro Gln Gln Pro Gln Gln Gln Pro Pro Pro Gln Leu
 820 825 830
 Gln Leu Gln Pro Gly Glu Glu Glu Arg Arg Glu Ser His His Leu Arg
 835 840 845
 Ser Pro Ala Tyr Ser Val Ser Thr Ile Glu Pro Arg Glu Asp Leu Leu
 850 855 860
 Ser Pro Val Gln Asp Ala Asp Arg Phe Tyr Arg Gly Ile Leu Glu Pro
 865 870 875 880
 Asp Lys His Cys Ser Thr Thr Pro Ala Gly Asn Ser Leu Pro Glu Tyr
 885 890 895
 Pro Lys Phe Pro Cys Ser Pro Ala Ala Tyr Thr Phe Ser Pro Asn Tyr
 900 905 910
 Asp Leu Arg Arg Pro His Gln Tyr Leu His Pro Gly Ala Gly Asp Ser
 915 920 925
 Arg Leu Arg Glu Pro Val Leu Tyr Ser Pro Pro Ser Ala Val Phe Val
 930 935 940
 Glu Pro Asn Arg Asn Glu Tyr Leu Glu Leu Lys Ala Lys Leu Asn Val
 945 950 955 960
 Glu Pro Asp Tyr Leu Glu Val Leu Glu Lys Gln Thr Thr Phe Ser Gln
 965 970 975
 Phe
 977

<210> 2396
 <211> 141
 <212> PRT
 <213> Homo sapiens

<400> 2396
 Ser Pro Ser Ala Ala Gly Gly Leu Ala Trp Val Ser Leu Ala Leu Gly
 1 5 10 15
 Ser Gly Ser Arg Gly Arg Asp His Ser Gly Ser Gly Val Gly Thr Ala
 20 25 30
 Met Ala Gly Ala Leu Val Arg Lys Ala Ala Asp Tyr Val Arg Ser Lys
 35 40 45

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Asp Phe Arg Asp Tyr Leu Met Ser Thr His Phe Trp Gly Pro Val Ala
 50          55          60
Asn Trp Gly Leu Pro Ile Ala Ala Ile Asn Asp Met Lys Lys Ser Pro
 65          70          75          80
Glu Ile Ile Ser Gly Arg Met Thr Phe Ala Leu Cys Cys Tyr Ser Leu
          85          90          95
Thr Phe Met Arg Phe Ala Tyr Lys Val Gln Pro Arg Asn Trp Leu Leu
          100          105          110
Phe Ala Cys His Ala Thr Asn Glu Val Ala Gln Leu Ile Gln Gly Gly
          115          120          125
Arg Leu Ile Lys His Glu Met Thr Lys Thr Ala Ser Ala
          130          135          140 141

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<210> 2397
 <211> 84
 <212> PRT
 <213> Homo sapiens

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<400> 2397
Ala Leu Pro Gly Thr Pro Gln Gln Thr Val Thr Leu Asn Thr Asp Gly
 1          5          10          15
Lys Val Lys Ser Phe Thr Ser Pro His Ser Asn Pro Asn Leu Pro Pro
          20          25          30
Ala Lys Phe Thr Ser Leu Gln Ser Leu Asn Trp Ser Ser His Leu
          35          40          45
Pro Pro Ser Pro Ala Thr Glu Ser Val Gly Lys Arg Gly Asn Ala Lys
          50          55          60
Pro Pro Thr Thr Lys Leu Leu His Ser Ser Pro Leu Trp Asn Phe Phe
          65          70          75          80
Ala Gln Gln Leu
          84

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<210> 2398
 <211> 1684
 <212> PRT
 <213> Homo sapiens

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<400> 2398
Pro Glu Val Thr Lys Pro Ser Leu Ser Gln Pro Thr Ala Ala Ser Pro
 1          5          10          15
Ile Gly Ser Ser Pro Ser Pro Pro Val Asn Gly Gly Asn Asn Ala Lys
          20          25          30
Arg Val Ala Val Pro Asn Gly Gln Pro Pro Ser Ala Ala Arg Tyr Met
          35          40          45
Pro Arg Glu Val Pro Pro Arg Phe Arg Cys Gln Gln Asp His Lys Val
          50          55          60
Leu Leu Lys Arg Gly Gln Pro Pro Pro Ser Cys Met Leu Leu Gly
          65          70          75          80
Gly Gly Ala Gly Pro Pro Pro Cys Thr Ala Pro Gly Ala Asn Pro Asn
          85          90          95
Asn Ala Gln Val Thr Gly Ala Leu Leu Gln Ser Glu Ser Gly Thr Ala
          100          105          110
Pro Asp Ser Thr Leu Gly Gly Ala Ala Ala Ser Asn Tyr Ala Asn Ser
          115          120          125
Thr Trp Gly Ser Gly Ala Ser Ser Asn Asn Gly Thr Ser Pro Asn Pro
          130          135          140
Ile His Ile Trp Asp Lys Val Ile Val Asp Gly Ser Asp Met Glu Glu
          145          150          155          160

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Trp Pro Cys Ile Ala Ser Lys Asp Thr Glu Ser Ser Ser Glu Asn Thr
 165 170 175
 Thr Asp Asn Asn Ser Ala Ser Asn Pro Gly Ser Glu Lys Ser Thr Leu
 180 185 190
 Pro Gly Ser Thr Thr Ser Asn Lys Gly Lys Gly Ser Gln Cys Gln Ser
 195 200 205
 Ala Ser Ser Gly Asn Glu Cys Asn Leu Gly Val Trp Lys Ser Asp Pro
 210 215 220
 Lys Ala Lys Ser Val Gln Ser Ser Asn Ser Thr Thr Glu Asn Asn Asn
 225 230 235 240
 Gly Leu Gly Asn Trp Arg Asn Val Ser Gly Gln Asp Arg Ile Gly Pro
 245 250 255
 Gly Ser Gly Phe Ser Asn Phe Asn Pro Asn Ser Asn Pro Ser Ala Trp
 260 265 270
 Pro Ala Leu Val Gln Glu Gly Thr Ser Arg Lys Gly Ala Leu Glu Thr
 275 280 285
 Asp Asn Ser Asn Ser Ser Ala Gln Val Ser Thr Val Gly Gln Thr Ser
 290 295 300
 Arg Glu Gln Gln Ser Lys Met Glu Asn Ala Gly Val Asn Phe Val Val
 305 310 315 320
 Ser Gly Arg Glu Gln Ala Gln Ile His Asn Thr Asp Gly Pro Lys Asn
 325 330 335
 Gly Asn Thr Asn Ser Leu Asn Leu Ser Ser Pro Asn Pro Met Glu Asn
 340 345 350
 Lys Gly Met Pro Phe Gly Met Gly Leu Gly Asn Thr Ser Arg Ser Thr
 355 360 365
 Asp Ala Pro Ser Gln Ser Thr Gly Asp Arg Lys Thr Gly Ser Val Gly
 370 375 380
 Ser Trp Gly Ala Ala Arg Gly Pro Ser Gly Thr Asp Thr Val Ser Gly
 385 390 395 400
 Gln Ser Asn Ser Gly Asn Asn Gly Asn Asn Gly Lys Glu Arg Glu Asp
 405 410 415
 Ser Trp Lys Gly Ala Ser Val Gln Lys Ser Thr Gly Ser Lys Asn Asp
 420 425 430
 Ser Trp Asp Asn Asn Asn Arg Ser Thr Gly Gly Ser Trp Asn Phe Gly
 435 440 445
 Pro Gln Asp Ser Asn Asp Asn Lys Trp Gly Glu Gly Asn Lys Met Thr
 450 455 460
 Ser Gly Val Ser Gln Gly Glu Trp Lys Gln Pro Thr Gly Ser Asp Glu
 465 470 475 480
 Leu Lys Ile Gly Glu Trp Ser Gly Pro Asn Gln Pro Asn Ser Ser Thr
 485 490 495
 Gly Ala Trp Asp Asn Gln Lys Gly His Pro Leu Leu Glu Asn Gln Gly
 500 505 510
 Asn Ala Gln Ala Pro Cys Trp Gly Arg Ser Ser Ser Ser Thr Gly Ser
 515 520 525
 Glu Val Glu Gly Gln Ser Thr Gly Ser Asn His Lys Ala Gly Ser Ser
 530 535 540
 Asp Ser His Asn Ser Gly Arg Arg Ser Tyr Arg Pro Thr His Pro Asp
 545 550 555 560
 Cys Gln Ala Val Leu Gln Thr Leu Leu Ser Arg Thr Asp Leu Asp Pro
 565 570 575
 Arg Val Leu Ser Asn Thr Gly Trp Gly Gln Thr Gln Ile Lys Gln Asp
 580 585 590
 Thr Val Trp Asp Ile Glu Glu Val Pro Arg Pro Glu Gly Lys Ser Asp
 595 600 605
 Lys Gly Thr Glu Gly Trp Glu Ser Ala Ala Thr Gln Thr Lys Asn Ser
 610 615 620
 Gly Gly Trp Gly Asp Ala Pro Ser Gln Ser Asn Gln Met Lys Ser Gly
 625 630 635 640
 Trp Gly Glu Leu Ser Ala Ser Thr Glu Trp Lys Asp Pro Lys Asn Thr
 645 650 655
 Gly Gly Trp Asn Asp Tyr Lys Asn Asn Asn Ser Ser Asn Trp Gly Gly
 660 665 670

Gly Arg Pro Asp Glu Lys Thr Pro Ser Ser Trp Asn Glu Asn Pro Ser
 675 680 685
 Lys Asp Gln Gly Trp Gly Gly Gly Arg Gln Pro Asn Gln Gly Trp Ser
 690 695 700
 Ser Gly Lys Asn Gly Trp Gly Glu Glu Val Asp Gln Thr Lys Asn Ser
 705 710 715 720
 Asn Trp Glu Ser Ser Ala Ser Lys Pro Val Ser Gly Trp Gly Glu Gly
 725 730 735
 Gly Gln Asn Glu Ile Gly Thr Trp Gly Asn Gly Gly Asn Ala Ser Leu
 740 745 750
 Ala Ser Lys Gly Gly Trp Glu Asp Cys Lys Arg Ser Pro Ala Trp Asn
 755 760 765
 Glu Thr Gly Arg Gln Pro Asn Ser Trp Asn Lys Gln His Gln Gln Gln
 770 775 780
 Gln Pro Pro Gln Gln Pro Pro Pro Pro Gln Pro Glu Ala Ser Gly Ser
 785 790 795 800
 Trp Gly Gly Pro Pro Pro Pro Gly Asn Val Arg Pro Ser Asn
 805 810 815
 Ser Ser Trp Ser Ser Gly Pro Gln Pro Ala Thr Pro Lys Asp Glu Glu
 820 825 830
 Pro Ser Gly Trp Glu Glu Pro Ser Pro Gln Ser Ile Ser Arg Lys Met
 835 840 845
 Asp Ile Asp Asp Gly Thr Ser Ala Trp Gly Asp Pro Asn Ser Tyr Asn
 850 855 860
 Tyr Lys Asn Val Asn Leu Trp Asp Lys Asn Ser Gln Gly Gly Pro Ala
 865 870 875 880
 Pro Arg Glu Pro Asn Leu Pro Thr Pro Met Thr Ser Lys Ser Ala Ser
 885 890 895
 Asp Ser Lys Ser Met Gln Asp Gly Trp Gly Glu Ser Asp Gly Pro Val
 900 905 910
 Thr Gly Ala Arg His Pro Ser Trp Glu Glu Glu Glu Asp Gly Gly Val
 915 920 925
 Trp Asn Thr Thr Gly Ser Gln Gly Ser Ala Ser Ser His Asn Ser Ala
 930 935 940
 Ser Trp Gly Gln Gly Gly Lys Lys Gln Met Lys Cys Ser Leu Lys Gly
 945 950 955 960
 Gly Asn Asn Asp Ser Trp Met Asn Pro Leu Ala Lys Gln Phe Ser Asn
 965 970 975
 Met Gly Leu Leu Ser Gln Thr Glu Asp Asn Pro Ser Ser Lys Met Asp
 980 985 990
 Leu Ser Val Gly Ser Leu Ser Asp Lys Lys Phe Asp Val Asp Lys Arg
 995 1000 1005
 Ala Met Asn Leu Gly Asp Phe Asn Asp Ile Met Arg Lys Asp Arg Ser
 1010 1015 1020
 Gly Phe Arg Pro Pro Asn Ser Lys Asp Met Gly Thr Thr Asp Ser Gly
 1025 1030 1035 1040
 Pro Tyr Phe Glu Lys Gly Gly Ser His Gly Leu Phe Gly Asn Ser Thr
 1045 1050 1055
 Ala Gln Ser Arg Gly Leu His Thr Pro Val Gln Pro Leu Asn Ser Ser
 1060 1065 1070
 Pro Ser Leu Arg Ala Gln Val Pro Pro Gln Phe Ile Ser Pro Gln Val
 1075 1080 1085
 Ser Ala Ser Met Leu Lys Gln Phe Pro Asn Ser Gly Leu Ser Pro Gly
 1090 1095 1100
 Leu Phe Asn Val Gly Pro Gln Leu Ser Pro Gln Gln Ile Ala Met Leu
 1105 1110 1115 1120
 Ser Gln Leu Pro Gln Ile Pro Gln Phe Gln Leu Ala Cys Gln Leu Leu
 1125 1130 1135
 Leu Gln Gln Gln Gln Gln Gln Gln Leu Leu Gln Asn Gln Arg Lys Ile
 1140 1145 1150
 Ser Gln Ala Val Arg Gln Gln Gln Glu Gln Gln Leu Ala Arg Met Val
 1155 1160 1165
 Ser Ala Leu Gln Gln Gln Gln Gln Gln Gln Arg Gln Pro Gly Met
 1170 1175 1180

Lys His Ser Pro Ser His Pro Val Gly Pro Lys Pro His Leu Asp Asn
 1185 1190 1195 1200
 Met Val Pro Asn Ala Leu Asn Val Gly Leu Pro Asp Leu Gln Thr Lys
 1205 1210 1215
 Gly Pro Ile Pro Gly Tyr Gly Ser Gly Phe Ser Ser Gly Gly Met Asp
 1220 1225 1230
 Tyr Gly Met Val Gly Gly Lys Glu Ala Gly Thr Glu Ser Arg Phe Lys
 1235 1240 1245
 Gln Trp Thr Ser Met Met Glu Gly Leu Pro Ser Val Ala Thr Gln Glu
 1250 1255 1260
 Ala Asn Met His Lys Asn Gly Ala Ile Val Ala Pro Gly Lys Thr Arg
 1265 1270 1275 1280
 Gly Gly Ser Pro Tyr Asn Gln Phe Asp Ile Ile Pro Gly Asp Thr Leu
 1285 1290 1295
 Gly Gly His Thr Gly Pro Ala Gly Asp Ser Trp Leu Pro Ala Lys Ser
 1300 1305 1310
 Pro Pro Thr Asn Lys Ile Gly Ser Lys Ser Ser Asn Ala Ser Trp Pro
 1315 1320 1325
 Pro Glu Phe Gln Pro Gly Val Pro Trp Lys Gly Ile Gln Asn Ile Asp
 1330 1335 1340
 Pro Glu Ser Asp Pro Tyr Val Thr Pro Gly Ser Val Leu Gly Gly Thr
 1345 1350 1355 1360
 Ala Thr Ser Pro Ile Val Asp Thr Asp His Gln Leu Leu Arg Asp Asn
 1365 1370 1375
 Thr Thr Gly Ser Asn Ser Ser Leu Asn Thr Ser Leu Pro Ser Pro Gly
 1380 1385 1390
 Ala Trp Pro Tyr Ser Ala Ser Asp Asn Ser Phe Thr Asn Val His Ser
 1395 1400 1405
 Thr Ser Ala Lys Phe Pro Asp Tyr Lys Ser Thr Trp Ser Pro Asp Pro
 1410 1415 1420
 Ile Gly His Asn Pro Thr His Leu Ser Asn Lys Met Trp Lys Asn His
 1425 1430 1435 1440
 Ile Ser Ser Arg Asn Thr Thr Pro Leu Pro Arg Pro Pro Gly Leu
 1445 1450 1455
 Thr Asn Pro Lys Pro Ser Ser Pro Trp Ser Ser Thr Ala Pro Arg Ser
 1460 1465 1470
 Val Arg Gly Trp Gly Thr Gln Asp Ser Arg Leu Ala Ser Ala Ser Thr
 1475 1480 1485
 Trp Ser Asp Gly Gly Ser Val Arg Pro Ser Tyr Trp Leu Val Leu His
 1490 1495 1500
 Asn Leu Thr Pro Gln Ile Asp Gly Ser Thr Leu Arg Thr Ile Cys Met
 1505 1510 1515 1520
 Gln His Gly Pro Leu Leu Thr Phe His Leu Asn Leu Thr Gln Gly Thr
 1525 1530 1535
 Ala Leu Ile Arg Tyr Ser Thr Lys Gln Glu Ala Ala Lys Ala Gln Thr
 1540 1545 1550
 Ala Leu His Met Cys Val Leu Gly Asn Thr Thr Ile Leu Ala Glu Phe
 1555 1560 1565
 Ala Thr Asp Asp Glu Val Ser Arg Phe Leu Ala Gln Ala Gln Pro Pro
 1570 1575 1580
 Thr Pro Ala Ala Thr Pro Ser Ala Pro Ala Ala Gly Trp Gln Ser Leu
 1585 1590 1595 1600
 Glu Thr Gly Gln Asn Gln Ser Asp Pro Val Gly Pro Ala Leu Asn Leu
 1605 1610 1615
 Phe Gly Gly Ser Thr Gly Leu Gly Gln Trp Ser Ser Ser Ala Gly Gly
 1620 1625 1630
 Ser Ser Gly Ala Asp Leu Ala Gly Ala Ser Leu Trp Gly Pro Pro Asn
 1635 1640 1645
 Tyr Ser Ser Ser Leu Trp Gly Val Pro Thr Val Glu Asp Pro His Arg
 1650 1655 1660
 Met Gly Ser Pro Ala Pro Leu Leu Pro Gly Asp Leu Leu Gly Gly Gly
 1665 1670 1675 1680
 Ser Asp Ser Ile
 1684

<210> 2399
 <211> 395
 <212> PRT
 <213> Homo sapiens

<400> 2399
 Val Pro Trp Lys Arg Gln Asp Glu Gln Leu Ser Leu Gln Val Glu Thr
 1 5 10 15
 Leu Tyr Leu Asp Ser Pro Ala Val Ile His Leu Leu Ser Pro Thr Phe
 20 25 30
 Leu Pro Pro Ser Ser Leu Pro Pro Phe Leu Gln Ile Val Asp Ser Ser
 35 40 45
 Ser Ser Ala Cys Thr Leu Asp Ser Phe Phe Pro Phe Leu Ala Pro Trp
 50 55 60
 Asp Ser Pro Gln Asp Cys Gly Phe Lys Asp His Gln Pro Leu Thr Leu
 65 70 75 80
 Gln Ala Leu Thr Val Glu Leu Ala Arg Trp Thr Leu Met Leu Leu Leu
 85 90 95
 Ser Thr Ala Met Tyr Gly Ala His Ala Pro Leu Leu Ala Leu Cys His
 100 105 110
 Val Asp Gly Arg Val Pro Phe Arg Pro Ser Ser Ala Val Leu Leu Thr
 115 120 125
 Glu Leu Thr Lys Leu Leu Leu Cys Ala Phe Ser Leu Leu Val Gly Trp
 130 135 140
 Gln Ala Trp Pro Gln Gly Pro Pro Pro Trp Arg Gln Ala Ala Pro Phe
 145 150 155 160
 Ala Leu Ser Ala Leu Leu Tyr Gly Ala Asn Asn Leu Val Ile Tyr
 165 170 175
 Leu Gln Arg Tyr Met Asp Pro Ser Thr Tyr Gln Val Leu Ser Asn Leu
 180 185 190
 Lys Ile Gly Ser Thr Ala Val Leu Tyr Cys Leu Cys Leu Arg His Arg
 195 200 205
 Leu Ser Val Arg Gln Gly Leu Ala Leu Leu Leu Leu Met Ala Ala Gly
 210 215 220
 Ala Cys Tyr Ala Ala Gly Gly Leu Gln Val Pro Gly Asn Thr Leu Pro
 225 230 235 240
 Ser Pro Pro Pro Ala Ala Ala Ser Pro Met Pro Leu His Ile Thr
 245 250 255
 Pro Leu Gly Leu Leu Leu Leu Ile Leu Tyr Cys Leu Ile Ser Gly Leu
 260 265 270
 Ser Ser Val Tyr Thr Glu Leu Leu Met Lys Arg Gln Arg Leu Pro Leu
 275 280 285
 Ala Leu Gln Asn Leu Phe Leu Tyr Thr Phe Gly Val Leu Leu Asn Leu
 290 295 300
 Gly Leu His Ala Gly Gly Gly Ser Gly Pro Gly Leu Leu Glu Gly Phe
 305 310 315 320
 Ser Gly Trp Ala Ala Leu Val Val Leu Ser Gln Ala Leu Asn Gly Leu
 325 330 335
 Leu Met Ser Ala Val Met Lys His Gly Ser Ser Ile Thr Arg Leu Phe
 340 345 350
 Val Val Ser Cys Ser Leu Val Val Asn Ala Val Leu Ser Ala Val Leu
 355 360 365
 Leu Arg Leu Gln Leu Thr Ala Ala Phe Phe Leu Ala Thr Leu Leu Ile
 370 375 380
 Gly Leu Ala Met Arg Leu Tyr Tyr Gly Ser Arg
 385 390 395

<210> 2400

<211> 552
 <212> PRT
 <213> Homo sapiens

<400> 2400
 Trp Val Ser Ser Met Gly Phe Glu Glu Leu Leu Glu Gln Val Gly Gly
 1 5 10 15
 Phe Gly Pro Phe Gln Leu Arg Asn Val Ala Leu Leu Ala Leu Pro Arg
 20 25 30
 Val Leu Leu Pro Leu His Phe Leu Leu Pro Ile Phe Leu Ala Ala Val
 35 40 45
 Pro Ala His Arg Cys Ala Leu Pro Gly Ala Pro Ala Asn Phe Ser His
 50 55 60
 Gln Asp Val Trp Leu Glu Ala His Leu Pro Arg Glu Pro Asp Gly Thr
 65 70 75 80
 Leu Ser Ser Cys Leu Arg Phe Ala Tyr Pro Gln Ala Leu Pro Asn Thr
 85 90 95
 Thr Leu Gly Glu Glu Arg Gln Ser Arg Gly Glu Leu Glu Asp Glu Pro
 100 105 110
 Ala Thr Val Pro Cys Ser Gln Gly Trp Glu Tyr Asp His Ser Glu Phe
 115 120 125
 Ser Ser Thr Ile Ala Thr Glu Ser Gln Trp Asp Leu Val Cys Glu Gln
 130 135 140
 Lys Gly Leu Asn Arg Ala Ala Ser Thr Phe Phe Phe Ala Gly Val Leu
 145 150 155 160
 Val Gly Ala Val Ala Phe Gly Tyr Leu Ser Asp Arg Phe Gly Arg Arg
 165 170 175
 Arg Leu Leu Leu Val Ala Tyr Val Ser Thr Leu Val Leu Gly Leu Ala
 180 185 190
 Ser Ala Ala Ser Val Ser Tyr Val Met Phe Ala Ile Thr Arg Thr Leu
 195 200 205
 Thr Gly Ser Ala Leu Ala Gly Phe Thr Ile Ile Val Met Pro Leu Glu
 210 215 220
 Leu Glu Trp Leu Asp Val Glu His Arg Thr Val Ala Gly Val Leu Ser
 225 230 235 240
 Ser Thr Phe Trp Thr Gly Gly Val Met Leu Leu Ala Leu Val Gly Tyr
 245 250 255
 Leu Ile Arg Asp Trp Arg Trp Leu Leu Ala Val Thr Leu Pro Cys
 260 265 270
 Ala Pro Gly Ile Leu Ser Leu Trp Trp Val Pro Glu Ser Ala Arg Trp
 275 280 285
 Leu Leu Thr Gln Gly His Val Lys Glu Ala His Arg Tyr Leu Leu His
 290 295 300
 Cys Ala Arg Leu Asn Gly Arg Pro Val Cys Glu Asp Ser Phe Ser Gln
 305 310 315 320
 Glu Ala Val Ser Lys Val Ala Ala Gly Glu Arg Val Val Arg Arg Pro
 325 330 335
 Ser Tyr Leu Asp Leu Phe Arg Thr Pro Arg Leu Arg His Ile Ser Leu
 340 345 350
 Cys Cys Val Val Val Trp Phe Gly Val Asn Phe Ser Tyr Tyr Gly Leu
 355 360 365
 Ser Leu Asp Val Ser Gly Leu Gly Leu Asn Val Tyr Gln Thr Gln Leu
 370 375 380
 Leu Phe Gly Ala Val Glu Leu Pro Ser Lys Leu Leu Val Tyr Leu Ser
 385 390 395 400
 Val Arg Tyr Ala Gly Arg Arg Leu Thr Gln Ala Gly Thr Leu Leu Gly
 405 410 415
 Thr Ala Leu Ala Phe Gly Thr Arg Leu Leu Val Ser Ser Asp Met Lys
 420 425 430
 Ser Trp Ser Thr Val Leu Ala Val Met Gly Lys Ala Phe Ser Glu Ala
 435 440 445
 Ala Phe Thr Thr Ala Tyr Leu Phe Thr Ser Glu Leu Tyr Pro Thr Val
 450 455 460

Leu Arg Gln Thr Gly Met Gly Leu Thr Ala Leu Val Gly Arg Leu Gly
 465 470 475 480
 Gly Ser Leu Ala Pro Leu Ala Ala Leu Leu Asp Gly Val Trp Leu Ser
 485 490 495
 Leu Pro Lys Leu Thr Tyr Gly Gly Ile Ala Leu Leu Ala Ala Gly Thr
 500 505 510
 Ala Leu Leu Leu Pro Glu Thr Arg Gln Ala Gln Leu Pro Glu Thr Ile
 515 520 525
 Gln Asp Val Glu Arg Lys Ser Ala Pro Thr Ser Leu Gln Glu Glu Glu
 530 535 540
 Met Pro Met Lys Gln Val Gln Asn
 545 550 552

<210> 2401
 <211> 370
 <212> PRT
 <213> Homo sapiens

<400> 2401
 Glu Ile Arg Thr Pro Val Ala Val Ser Ser Ala Pro Ser Gly Asp Ser
 1 5 10 15
 Glu Gly Asp Glu Glu Glu Thr Thr Gln Asp Glu Val Ser Ser His Thr
 20 25 30
 Ser Glu Glu Asp Gly Gly Val Val Lys Val Glu Lys Glu Leu Glu Asn
 35 40 45
 Thr Glu Gln Pro Val Gly Gly Asn Glu Val Val Glu His Glu Val Thr
 50 55 60
 Gly Asn Leu Asn Ser Asp Pro Leu Leu Glu Leu Cys Gln Cys Pro Leu
 65 70 75 80
 Cys Gln Leu Asp Cys Gly Ser Arg Glu Gln Leu Ile Ala His Val Tyr
 85 90 95
 Gln His Thr Ala Ala Val Val Ser Ala Lys Ser Tyr Met Cys Pro Val
 100 105 110
 Cys Gly Arg Ala Leu Ser Ser Pro Gly Ser Leu Gly Arg His Leu Leu
 115 120 125
 Ile His Ser Glu Asp Gln Arg Ser Asn Cys Ala Val Cys Gly Ala Arg
 130 135 140
 Phe Thr Ser His Ala Thr Phe Asn Ser Glu Lys Leu Pro Glu Val Leu
 145 150 155 160
 Asn Met Glu Ser Leu Pro Thr Val His Asn Glu Gly Pro Ser Ser Ala
 165 170 175
 Glu Gly Lys Asp Ile Ala Phe Ser Pro Pro Val Tyr Pro Ala Gly Ile
 180 185 190
 Leu Leu Val Cys Asn Asn Cys Ala Tyr Arg Lys Leu Leu Glu Ala
 195 200 205
 Gln Thr Pro Ser Val Arg Lys Trp Ala Leu Arg Arg Gln Asn Glu Pro
 210 215 220
 Leu Glu Val Arg Leu Gln Arg Leu Glu Arg Glu Arg Thr Ala Lys Lys
 225 230 235 240
 Ser Arg Arg Asp Asn Glu Thr Pro Glu Glu Arg Glu Val Arg Arg Met
 245 250 255
 Arg Asp Arg Glu Ala Lys Arg Leu Gln Arg Met Gln Glu Thr Asp Glu
 260 265 270
 Gln Arg Ala Arg Arg Leu Gln Arg Asp Arg Glu Ala Met Arg Leu Lys
 275 280 285
 Arg Ala Asn Glu Thr Pro Glu Lys Arg Gln Ala Arg Leu Ile Arg Glu
 290 295 300
 Arg Glu Ala Lys Arg Leu Lys Arg Arg Leu Glu Lys Met Asp Met Met
 305 310 315 320
 Leu Arg Ala Gln Phe Gly Gln Asp Pro Ser Ala Met Ala Ala Leu Ala
 325 330 335

Ala Glu Met Asn Phe Phe Gln Leu Pro Val Ser Gly Val Glu Leu Asp
 340 345 350
 Ser Gln Leu Leu Gly Lys Met Ala Phe Glu Glu Gln Asn Ser Ser Ser
 355 360 365
 Leu His
 370

<210> 2402
 <211> 345
 <212> PRT
 <213> Homo sapiens

<400> 2402
 Arg His Gly His Gly Gly Arg Asp Arg Arg Gly Gly Gly Arg Val Ala
 1 5 10 15
 Arg Pro Gly Gly Leu Gly Arg Tyr Pro Gly Arg Gly Ala Ala Ser
 20 25 30
 Leu Val Phe Val Pro Thr Arg Arg Arg Ser Gly Pro Ser Gly Thr Ala
 35 40 45
 Ser Val Ala Ala Met Ala Tyr His Ser Gly Tyr Gly Ala His Gly Ser
 50 55 60
 Lys His Arg Ala Arg Ala Pro Asp Pro Pro Leu Phe Asp Asp
 65 70 75 80
 Thr Ser Gly Gly Tyr Ser Ser Gln Pro Gly Gly Tyr Pro Ala Thr Gly
 85 90 95
 Ala Asp Val Ala Phe Ser Val Asn His Leu Leu Gly Asp Pro Met Ala
 100 105 110
 Asn Val Ala Met Ala Tyr Gly Ser Ser Ile Ala Ser His Gly Lys Asp
 115 120 125
 Met Val His Lys Glu Leu His Arg Phe Val Ser Val Ser Lys Leu Lys
 130 135 140
 Tyr Phe Phe Ala Val Asp Thr Ala Tyr Val Ala Lys Lys Leu Gly Leu
 145 150 155 160
 Leu Val Phe Pro Tyr Thr His Gln Asn Trp Glu Val Gln Tyr Ser Arg
 165 170 175
 Asp Ala Pro Leu Pro Pro Arg Gln Asp Leu Asn Ala Pro Asp Leu Tyr
 180 185 190
 Ile Pro Thr Met Ala Phe Ile Thr Tyr Val Leu Leu Ala Gly Met Ala
 195 200 205
 Leu Gly Ile Gln Lys Arg Phe Ser Pro Glu Val Leu Gly Leu Cys Ala
 210 215 220
 Ser Thr Ala Leu Val Trp Val Val Met Glu Val Leu Ala Leu Leu Leu
 225 230 235 240
 Gly Leu Tyr Leu Ala Thr Val Arg Ser Asp Leu Ser Thr Phe His Leu
 245 250 255
 Leu Ala Tyr Ser Gly Tyr Lys Tyr Val Gly Met Ile Leu Ser Val Leu
 260 265 270
 Thr Gly Leu Leu Phe Gly Ser Asp Gly Tyr Tyr Val Ala Leu Ala Trp
 275 280 285
 Thr Ser Ser Ala Leu Met Tyr Phe Ile Val Arg Ser Leu Arg Thr Ala
 290 295 300
 Ala Leu Gly Pro Asp Ser Met Gly Gly Pro Val Pro Arg Gln Arg Leu
 305 310 315 320
 Gln Leu Tyr Leu Thr Leu Gly Ala Ala Ala Phe Gln Pro Leu Ile Ile
 325 330 335
 Tyr Trp Leu Thr Phe His Leu Val Arg
 340 345

<210> 2403

<211> 236
 <212> PRT
 <213> Homo sapiens

<400> 2403
 Arg Pro Pro Arg Val Trp Tyr Pro Glu Leu Arg Glu Leu Ser Ala Ala
 1 5 10 15
 Ala Pro Arg Trp Ser His Arg Thr Ala Pro Gly Ile Met Val Phe Tyr
 20 25 30
 Phe Thr Ser Ser Val Asn Ser Ser Ala Tyr Thr Ile Tyr Met Gly
 35 40 45
 Lys Asp Lys Tyr Glu Asn Glu Asp Leu Ile Lys His Gly Trp Pro Glu
 50 55 60
 Asp Ile Trp Phe His Val Asp Lys Leu Ser Ser Ala His Val Tyr Leu
 65 70 75 80
 Arg Leu His Lys Gly Glu Asn Ile Glu Asp Ile Pro Lys Glu Val Leu
 85 90 95
 Met Asp Cys Ala His Leu Val Lys Ala Asn Ser Ile Gln Gly Cys Lys
 100 105 110
 Met Asn Asn Val Asn Val Val Tyr Thr Pro Trp Ser Asn Leu Lys Lys
 115 120 125
 Thr Ala Asp Met Asp Val Gly Gln Ile Gly Phe His Arg Gln Lys Asp
 130 135 140
 Val Lys Ile Val Thr Val Glu Lys Lys Val Asn Glu Ile Leu Asn Arg
 145 150 155 160
 Leu Glu Lys Thr Lys Val Glu Arg Phe Pro Asp Leu Ala Ala Glu Lys
 165 170 175
 Glu Cys Arg Asp Arg Glu Glu Arg Asn Glu Lys Lys Ala Gln Ile Gln
 180 185 190
 Glu Met Lys Lys Arg Glu Lys Glu Glu Met Lys Lys Lys Arg Glu Met
 195 200 205
 Asp Glu Leu Arg Ser Tyr Ser Ser Leu Met Lys Val Glu Asn Met Ser
 210 215 220
 Ser Asn Gln Asp Gly Asn Asp Ser Asp Glu Phe Met
 225 230 235 236

<210> 2404
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 2404
 Arg Glu Ala Thr Thr Leu Ala Cys Arg Asn Ser Cys Trp Val Phe Ser
 1 5 10 15
 Arg Cys Ser Leu Gly Ala Cys Lys Pro Thr Val Cys Ser Met Pro Ser
 20 25 30
 Leu Ser Arg Gln Gly Ser Gln Thr Leu Cys Leu Arg Leu Ala Glu Tyr
 35 40 45
 Cys Met Glu Ser Val Asp Ser Gln Arg Leu Leu Leu Ser
 50 55 60 61

<210> 2405
 <211> 225
 <212> PRT
 <213> Homo sapiens

<400> 2405

Gln Gln Glu Ser Pro Ala Ala Gly Ala Ala Arg Met Asn Cys Lys Glu
 1 5 10 15
 Gly Thr Asp Ser Ser Cys Gly Cys Arg Gly Asn Asp Glu Lys Lys Met
 20 25 30
 Leu Lys Cys Val Val Val Gly Asp Gly Ala Val Gly Lys Thr Cys Leu
 35 40 45
 Leu Met Ser Tyr Ala Asn Asp Ala Phe Pro Glu Glu Tyr Val Pro Thr
 50 55 60
 Val Phe Asp His Tyr Ala Val Thr Val Thr Val Gly Gly Lys Gln His
 65 70 75 80
 Leu Leu Gly Leu Tyr Asp Thr Ala Gly Gln Glu Asp Tyr Asn Gln Leu
 85 90 95
 Arg Pro Leu Ser Tyr Pro Asn Thr Asp Val Phe Leu Ile Cys Phe Ser
 100 105 110
 Val Val Asn Pro Ala Ser Tyr His Asn Val Gln Glu Glu Trp Val Pro
 115 120 125
 Glu Leu Lys Asp Cys Met Pro His Val Pro Tyr Val Leu Ile Gly Thr
 130 135 140
 Gln Ile Asp Leu Arg Asp Asp Pro Lys Thr Leu Ala Arg Leu Leu Tyr
 145 150 155 160
 Met Lys Glu Lys Pro Leu Thr Tyr Glu His Gly Val Lys Leu Ala Lys
 165 170 175
 Ala Ile Gly Ala Gln Cys Tyr Leu Glu Cys Ser Ala Leu Thr Gln Lys
 180 185 190
 Gly Leu Lys Ala Val Phe Asp Glu Ala Ile Leu Thr Ile Phe His Pro
 195 200 205
 Lys Lys Lys Lys Lys Arg Cys Ser Glu Gly His Ser Cys Cys Ser Ile
 210 215 220
 Ile
 225

<210> 2406
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 2406
 Asn Pro Arg Ile Gln Leu Ser Gly Asn Ser Cys Cys Ala Gly Ser Cys
 1 5 10 15
 Arg Val Trp Leu Ser Glu Gln
 20 23

<210> 2407
 <211> 157
 <212> PRT
 <213> Homo sapiens

<400> 2407
 Pro Ala Gly Ile Arg His Glu Gln Ala Arg Gly Ala Asp Arg Met Gly
 1 5 10 15
 Lys Cys Arg Gly Leu Arg Thr Ala Arg Lys Leu Arg Ser His Arg Arg
 20 25 30
 Asp Gln Lys Trp His Asp Lys Gln Tyr Lys Lys Ala His Leu Gly Thr
 35 40 45
 Ala Leu Lys Ala Asn Pro Phe Gly Gly Ala Ser His Ala Lys Gly Ile
 50 55 60
 Val Leu Glu Lys Val Gly Val Glu Ala Lys Gln Pro Asn Ser Ala Ile
 65 70 75 80

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Arg Lys Cys Val Arg Val Gln Leu Ile Lys Asn Gly Lys Lys Ile Thr
      85          90          95
Ala Phe Val Pro Asn Asp Gly Cys Leu Asn Phe Ile Glu Glu Asn Asp
      100        105        110
Glu Val Leu Val Ala Gly Phe Gly Arg Lys Gly His Ala Val Gly Asp
      115        120        125
Ile Pro Gly Val Arg Phe Lys Val Val Lys Val Ala Asn Val Ser Leu
      130        135        140
Leu Ala Leu Tyr Lys Gly Lys Lys Glu Arg Pro Arg Ser
145          150          155          157

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<210> 2408
 <211> 236
 <212> PRT
 <213> Homo sapiens

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<400> 2408
Pro Gly Leu Ser Gln Glu Pro Ser Gly Ser Met Glu Thr Val Val Ile
  1          5          10          15
Val Ala Ile Gly Val Leu Ala Thr Ile Phe Leu Ala Ser Phe Ala Ala
      20        25        30
Leu Val Leu Val Cys Arg Gln Arg Tyr Cys Arg Pro Arg Asp Leu Leu
      35        40        45
Gln Arg Tyr Asp Ser Lys Pro Ile Val Asp Leu Ile Gly Ala Met Glu
      50        55        60
Thr Gln Ser Glu Pro Ser Glu Leu Glu Leu Asp Asp Val Val Ile Thr
      65        70        75        80
Asn Pro His Ile Glu Ala Ile Leu Glu Asn Glu Asp Trp Ile Glu Asp
      85        90        95
Ala Ser Gly Leu Met Ser His Cys Ile Ala Ile Leu Lys Ile Cys His
      100       105       110
Thr Leu Thr Glu Lys Leu Val Ala Met Thr Met Gly Ser Gly Ala Lys
      115       120       125
Met Lys Thr Ser Ala Ser Val Ser Asp Ile Ile Val Val Ala Lys Arg
      130       135       140
Ile Ser Pro Arg Val Asp Asp Val Val Lys Ser Met Tyr Pro Pro Leu
145          150          155          160
Asp Pro Lys Leu Leu Asp Ala Arg Thr Thr Ala Leu Leu Ser Val
      165       170       175
Ser His Leu Val Leu Val Thr Arg Asn Ala Cys His Leu Thr Gly Gly
      180       185       190
Leu Asp Trp Ile Asp Gln Ser Leu Ser Ala Ala Glu Glu His Leu Glu
      195       200       205
Val Leu Arg Glu Ala Ala Leu Ala Ser Glu Pro Asp Lys Gly Leu Pro
      210       215       220
Gly Pro Glu Gly Phe Leu Gln Glu Gln Ser Ala Ile
225          230          235          236

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<210> 2409
 <211> 170
 <212> PRT
 <213> Homo sapiens

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<400> 2409
Met Arg Leu Gln Gly Ala Ile Phe Val Leu Leu Pro His Leu Gly Pro
  1          5          10          15
Ile Leu Val Trp Leu Phe Thr Arg Asp His Met Ser Gly Trp Cys Glu
      20        25        30

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Gly Pro Arg Met Leu Ser Trp Cys Pro Phe Tyr Lys Val Leu Leu Leu
   35               40               45
Val Gln Thr Ala Ile Tyr Ser Val Val Gly Tyr Ala Ser Tyr Leu Val
   50               55               60
Trp Lys Asp Leu Gly Gly Gly Leu Gly Trp Pro Leu Ala Leu Pro Leu
   65               70               75               80
Gly Leu Tyr Ala Val Gln Leu Thr Ile Ser Trp Thr Val Leu Val Leu
               85               90               95
Phe Phe Thr Val His Asn Pro Gly Leu Ala Leu Leu His Leu Leu Leu
   100               105               110
Leu Tyr Gly Leu Val Val Ser Thr Ala Leu Ile Trp His Pro Ile Asn
   115               120               125
Lys Leu Ala Ala Leu Leu Leu Leu Pro Tyr Leu Ala Trp Leu Thr Val
   130               135               140
Thr Ser Ala Leu Thr Tyr His Leu Trp Arg Asp Ser Leu Cys Pro Val
   145               150               155               160
His Gln Pro Gln Pro Thr Glu Lys Ser Asp
               165               170

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<210> 2410
<211> 26
<212> PRT
<213> Homo sapiens

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<400> 2410
Pro Lys Leu Ser Val Tyr Pro Leu Gln Ser His His Cys Leu Ser Glu
  1               5               10               15
Pro Phe Gln Ser Leu Val Cys Cys Leu Ala
               20               25 26

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<210> 2411
<211> 275
<212> PRT
<213> Homo sapiens

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<400> 2411
Ser Cys Lys Thr Glu Asn Leu Leu Glu Met Trp Trp Phe Gln Gln Gly
  1               5               10               15
Leu Ser Phe Leu Pro Ser Ala Leu Val Ile Trp Thr Ser Ala Ala Phe
   20               25               30
Ile Phe Ser Tyr Ile Thr Ala Val Thr Leu His His Ile Asp Pro Ala
   35               40               45
Leu Pro Tyr Ile Ser Asp Thr Gly Thr Val Ala Pro Glu Lys Cys Leu
   50               55               60
Phe Gly Ala Met Leu Asn Ile Ala Ala Val Leu Cys Ile Ala Thr Ile
   65               70               75               80
Tyr Val Arg Tyr Lys Gln Val His Ala Leu Ser Pro Glu Glu Asn Val
   85               90               95
Ile Ile Lys Leu Asn Lys Ala Gly Leu Val Leu Gly Ile Leu Ser Cys
   100               105               110
Leu Gly Leu Ser Ile Val Ala Asn Phe Gln Lys Thr Thr Leu Phe Ala
   115               120               125
Ala His Val Ser Gly Ala Val Leu Thr Phe Gly Met Gly Ser Leu Tyr
   130               135               140
Met Phe Val Gln Thr Ile Leu Ser Tyr Gln Met Gln Pro Lys Ile His
   145               150               155               160
Gly Lys Gln Val Phe Trp Ile Arg Leu Leu Leu Val Ile Trp Cys Gly
               165               170               175

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Val Ser Ala Leu Ser Met Leu Thr Cys Ser Ser Val Leu His Ser Gly
 180 185 190
 Asn Phe Gly Thr Asp Leu Glu Gln Lys Leu His Trp Asn Pro Glu Asp
 195 200 205
 Lys Gly Tyr Val Leu His Met Ile Thr Thr Ala Ala Glu Trp Ser Met
 210 215 220
 Ser Phe Ser Phe Phe Gly Phe Phe Leu Thr Tyr Ile Arg Asp Phe Gln
 225 230 235 240
 Lys Ile Ser Leu Arg Val Glu Ala Asn Leu His Gly Leu Thr Leu Tyr
 245 250 255
 Asp Thr Ala Pro Cys Pro Ile Asn Asn Glu Arg Thr Arg Leu Leu Ser
 260 265 270
 Arg Asp Ile
 275

<210> 2412
 <211> 254
 <212> PRT
 <213> Homo sapiens

<400> 2412
 Gly Gly Ala Pro Pro Ala Ser Val Pro Ala Arg Glu Ser Pro Val Ser
 1 5 10 15
 Gly Ala Gln Gly Ser Ser Arg Thr Arg Gly His Lys Arg Ala Ala Gly
 20 25 30
 Ala Arg Ala Pro Gln Leu Cys Ser Ser Trp Gln Arg Arg Ser Ala Pro
 35 40 45
 Ala Met Ser Arg Gly Leu Gln Leu Leu Leu Ser Cys Ala Tyr Ser
 50 55 60
 Leu Ala Pro Ala Thr Pro Glu Val Lys Val Ala Cys Ser Glu Asp Val
 65 70 75 80
 Asp Leu Pro Cys Thr Ala Pro Trp Asp Pro Gln Val Pro Tyr Thr Val
 85 90 95
 Ser Trp Val Lys Leu Leu Glu Gly Gly Glu Glu Arg Met Glu Thr Pro
 100 105 110
 Gln Glu Asp His Leu Arg Gly Gln His Tyr His Gln Lys Gly Gln Asn
 115 120 125
 Gly Ser Phe Asp Ala Pro Asn Glu Arg Pro Tyr Ser Leu Lys Ile Arg
 130 135 140
 Asn Thr Thr Ser Cys Asn Ser Gly Thr Tyr Arg Cys Thr Leu Gln Asp
 145 150 155 160
 Pro Asp Gly Gln Arg Asn Leu Ser Gly Lys Val Ile Leu Arg Val Thr
 165 170 175
 Gly Cys Pro Ala Gln Arg Lys Glu Glu Thr Phe Lys Lys Tyr Arg Ala
 180 185 190
 Glu Ile Val Leu Leu Leu Ala Leu Val Ile Phe Tyr Leu Thr Leu Ile
 195 200 205
 Ile Phe Thr Cys Lys Phe Ala Arg Leu Gln Ser Ile Phe Pro Asp Phe
 210 215 220
 Ser Lys Ala Gly Met Glu Arg Ala Phe Leu Pro Val Thr Ser Pro Asn
 225 230 235 240
 Lys His Leu Gly Leu Val Thr Pro His Lys Thr Glu Leu Val
 245 250 254

<210> 2413
 <211> 159
 <212> PRT
 <213> Homo sapiens

<400> 2413

Cys Glu Thr Ser Thr Ser Ser Ala Gly His Ala Pro Cys Arg His Ala
 1 5 10 15
 Ala Gln Gly Pro Pro Ala Glu Pro Thr Gly Leu Arg Leu Cys Ser Glu
 20 25 30
 His Gln Arg Leu His Ala Trp Pro Pro Gly Pro Arg Arg Pro Ser Leu
 35 40 45
 Trp Pro Pro Lys Asn Gly Lys Trp His Ser Gly Lys Arg Thr Ala Gly
 50 55 60
 Gly Arg Pro Gln Arg Arg Pro Ser Arg Arg Gln Ser Gln Arg Pro Ser
 65 70 75 80
 Ala Trp Ser Gly Ser Pro Arg Met His Ser Pro Gly Gln Lys Cys Ser
 85 90 95
 Leu Met Cys Pro His Arg Ser Gln Asp Ser Leu Ser Thr Ala Ile Phe
 100 105 110
 Gln Arg Ser Pro Gly Ala Asn Thr Gly Arg Ala Leu His Cys Val Leu
 115 120 125
 Ser Lys Glu Met Lys Ser Val Gln Arg Ser Leu Gly Leu Ser Arg Ile
 130 135 140
 His Leu Gln Ser Lys Arg Lys Ile Ile His Phe Val Leu Thr Arg
 145 150 155 159

<210> 2414

<211> 370

<212> PRT

<213> Homo sapiens

<400> 2414

Leu Lys Asp Thr Leu Lys Ser Gln Met Thr Gln Glu Ala Ser Asp Glu
 1 5 10 15
 Ala Glu Asp Met Lys Glu Ala Met Asn Arg Met Ile Asp Glu Leu Asn
 20 25 30
 Lys Gln Val Ser Glu Leu Ser Gln Leu Tyr Lys Glu Ala Gln Ala Glu
 35 40 45
 Leu Glu Asp Tyr Arg Lys Arg Lys Ser Leu Glu Asp Val Thr Ala Glu
 50 55 60
 Tyr Ile His Lys Ala Glu His Glu Lys Leu Met Gln Leu Thr Asn Val
 65 70 75 80
 Ser Arg Ala Lys Ala Glu Asp Ala Leu Ser Glu Met Lys Ser Gln Tyr
 85 90 95
 Ser Lys Val Leu Asn Glu Leu Thr Gln Leu Lys Gln Leu Val Asp Ala
 100 105 110
 Gln Lys Glu Asn Ser Val Ser Ile Thr Glu His Leu Gln Val Ile Thr
 115 120 125
 Thr Leu Arg Thr Ala Ala Lys Glu Met Glu Glu Lys Ile Ser Asn Leu
 130 135 140
 Lys Glu His Leu Ala Ser Lys Glu Val Glu Val Ala Lys Leu Glu Lys
 145 150 155 160
 Gln Leu Leu Glu Glu Lys Ala Ala Met Thr Asp Ala Met Val Pro Arg
 165 170 175
 Ser Ser Tyr Glu Lys Leu Gln Ser Ser Leu Glu Ser Glu Val Ser Val
 180 185 190
 Leu Ala Ser Lys Leu Lys Glu Ser Val Lys Glu Lys Glu Lys Val His
 195 200 205
 Ser Glu Val Val Gln Ile Arg Ser Glu Val Ser Gln Val Lys Arg Glu
 210 215 220
 Lys Glu Asn Ile Gln Thr Leu Leu Lys Ser Lys Glu Gln Glu Val Asn
 225 230 235 240
 Glu Leu Leu Gln Lys Phe Gln Gln Ala Gln Glu Glu Leu Ala Glu Met
 245 250 255

Lys Arg Tyr Ser Glu Ser Ser Ser Lys Leu Glu Glu Asp Lys Asp Lys
 260 265 270
 Lys Ile Asn Glu Met Ser Lys Glu Val Thr Lys Leu Lys Glu Ala Leu
 275 280 285
 Asn Ser Leu Ser Gln Leu Ser Tyr Ser Thr Ser Ser Ser Lys Arg Gln
 290 295 300
 Ser Gln Gln Leu Glu Ala Leu Gln Gln Gln Val Lys Gln Leu Gln Asn
 305 310 315 320
 Gln Leu Ala Glu Cys Lys Lys Gln His Gln Glu Val Ile Ser Val Tyr
 325 330 335
 Arg Met His Leu Leu Tyr Ala Val Gln Gly Gln Met Asp Glu Asp Val
 340 345 350
 Gln Lys Val Leu Lys Gln Ile Leu Thr Met Cys Lys Asn Gln Ser Gln
 355 360 365
 Lys Lys
 370

<210> 2415
 <211> 219
 <212> PRT
 <213> Homo sapiens

<400> 2415
 Ala Ala Ala Thr Ala Ala Ser Leu Ser Pro Arg Gly Cys Arg Leu Arg
 1 5 10 15
 Thr Pro Ser Ser Asp Val Gly Pro Ser Arg Ala Pro Pro Pro Ser Ala
 20 25 30
 Ala Pro Leu Pro Thr Gly Arg Ala Gln Met Ser Pro Ser Gly Arg Leu
 35 40 45
 Cys Leu Leu Thr Ile Val Gly Leu Ile Leu Pro Thr Arg Gly Gln Thr
 50 55 60
 Leu Lys Asp Thr Thr Ser Ser Ser Ser Ala Asp Ala Thr Ile Met Asp
 65 70 75 80
 Ile Gln Val Pro Thr Arg Ala Pro Asp Ala Val Tyr Thr Glu Leu Gln
 85 90 95
 Pro Thr Ser Pro Thr Pro Thr Trp Pro Ala Asp Glu Thr Pro Gln Pro
 100 105 110
 Gln Thr Gln Thr Gln Gln Leu Glu Gly Thr Asp Gly Pro Leu Val Thr
 115 120 125
 Asp Pro Glu Thr His Lys Ser Thr Lys Ala Ala His Pro Thr Asp Asp
 130 135 140
 Thr Thr Thr Leu Ser Glu Arg Pro Ser Pro Ser Thr Asp Val Gln Thr
 145 150 155 160
 Asp Pro Gln Thr Leu Lys Pro Ser Gly Phe His Glu Asp Asp Pro Phe
 165 170 175
 Phe Tyr Asp Glu His Thr Leu Arg Lys Arg Gly Leu Leu Val Ala Ala
 180 185 190
 Val Leu Phe Ile Thr Gly Ile Ile Ile Leu Thr Ser Gly Lys Cys Arg
 195 200 205
 Gln Leu Ser Arg Leu Cys Arg Asn His Cys Arg
 210 215 219

<210> 2416
 <211> 534
 <212> PRT
 <213> Homo sapiens

<400> 2416

Phe Val Gly Glu Gln Glu Gly Gly Cys Glu Ala Gly Ala Gly Arg Gly
 1 5 10 15
 Ala Gln Thr Tyr Pro Gly Glu Ala Gly Glu Arg Trp Phe Gly Arg Arg
 20 25 30
 Arg Arg Arg Gly Arg Val Val Ser Arg Lys Lys Met Ser Leu Lys Ser
 35 40 45
 Glu Arg Arg Gly Ile His Val Asp Gln Ser Asp Leu Leu Cys Lys Lys
 50 55 60
 Gly Cys Gly Tyr Tyr Gly Asn Pro Ala Trp Gln Gly Phe Cys Ser Lys
 65 70 75 80
 Cys Trp Arg Glu Glu Tyr His Lys Ala Arg Gln Lys Gln Ile Gln Glu
 85 90 95
 Asp Trp Glu Leu Ala Glu Arg Leu Gln Arg Glu Glu Glu Glu Ala Phe
 100 105 110
 Ala Ser Ser Gln Ser Ser Gln Gly Ala Gln Ser Leu Thr Phe Ser Lys
 115 120 125
 Phe Glu Glu Lys Lys Thr Asn Glu Lys Thr Arg Lys Val Thr Thr Val
 130 135 140
 Lys Lys Phe Phe Ser Ala Ser Ser Arg Val Gly Ser Lys Lys Glu Ile
 145 150 155 160
 Gln Glu Ala Lys Ala Pro Ser Pro Ser Ile Asn Arg Gln Thr Ser Ile
 165 170 175
 Glu Thr Asp Arg Val Ser Lys Glu Phe Ile Glu Phe Leu Lys Thr Phe
 180 185 190
 His Lys Thr Gly Gln Glu Ile Tyr Lys Gln Thr Lys Leu Phe Leu Glu
 195 200 205
 Gly Met His Tyr Lys Arg Asp Leu Ser Ile Glu Glu Gln Ser Glu Cys
 210 215 220
 Ala Gln Asp Phe Tyr His Asn Val Ala Glu Arg Met Gln Thr Arg Gly
 225 230 235 240
 Lys Val Pro Pro Glu Arg Val Glu Lys Ile Met Asp Gln Ile Glu Lys
 245 250 255
 Tyr Ile Met Thr Arg Leu Tyr Lys Tyr Val Phe Cys Pro Glu Thr Thr
 260 265 270
 Asp Asp Glu Lys Lys Asp Leu Ala Ile Gln Lys Arg Ile Arg Ala Leu
 275 280 285
 Arg Trp Val Thr Pro Gln Met Leu Cys Val Pro Val Asn Glu Asp Ile
 290 295 300
 Pro Glu Val Ser Asp Met Val Val Lys Ala Ile Thr Asp Ile Ile Glu
 305 310 315 320
 Met Asp Ser Lys Arg Val Pro Arg Asp Lys Leu Ala Cys Ile Thr Lys
 325 330 335
 Cys Ser Lys His Ile Phe Asn Ala Ile Lys Ile Thr Lys Asn Glu Pro
 340 345 350
 Ala Ser Ala Asp Asp Phe Leu Pro Thr Leu Ile Tyr Ile Val Leu Lys
 355 360 365
 Gly Asn Pro Pro Arg Leu Gln Ser Asn Ile Gln Tyr Ile Thr Arg Phe
 370 375 380
 Cys Asn Pro Ser Arg Leu Met Thr Gly Glu Asp Gly Tyr Tyr Phe Thr
 385 390 395 400
 Asn Leu Cys Cys Ala Val Ala Phe Ile Glu Lys Leu Asp Ala Gln Ser
 405 410 415
 Leu Asn Leu Ser Gln Glu Asp Phe Asp Arg Tyr Met Ser Gly Gln Thr
 420 425 430
 Ser Pro Arg Lys Gln Glu Ala Glu Ser Trp Ser Pro Asp Ala Cys Leu
 435 440 445
 Gly Val Lys Gln Met Tyr Lys Asn Leu Asp Leu Leu Ser Gln Leu Asn
 450 455 460
 Glu Arg Gln Glu Arg Ile Met Asn Glu Ala Lys Lys Leu Glu Lys Asp
 465 470 475 480
 Leu Ile Asp Trp Thr Asp Gly Ile Ala Arg Glu Val Gln Asp Ile Val
 485 490 495
 Glu Lys Tyr Pro Leu Glu Ile Lys Pro Pro Asn Gln Pro Leu Ala Ala
 500 505 510

Ile Asp Ser Glu Asn Val Glu Asn Asp Lys Leu Pro Pro Pro Leu Gln
 515 520 525
 Pro Gln Val Tyr Ala Gly
 530 534

<210> 2417
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 2417
 Ser Asn Met Arg Glu Val Gly Cys Gly Trp Leu Val Pro Val Ile Pro
 1 5 10 15
 Ala Phe Trp Glu Ala Glu Val Gly Gly Ser Leu Glu Ala Arg Ser Leu
 20 25 30
 Arg Gln Ala Trp Ala Thr Lys Gln Asp Pro Ile Ser Lys Lys Lys
 35 40 45 47

<210> 2418
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 2418
 Pro Cys Arg Pro Gly Met Glu Cys Asn Ser Met Ile Ser Val His Cys
 1 5 10 15
 Asn Leu
 18

<210> 2419
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 2419
 Pro Cys Arg Pro Gly Met Glu Cys Asn Ser Met Ile Ser Val His Cys
 1 5 10 15
 Asn Leu
 18

<210> 2420
 <211> 461
 <212> PRT
 <213> Homo sapiens

<221> misc_feature
 <222> (1)...(461)
 <223> Xaa = any amino acid or nothing

<400> 2420
 Pro Tyr Pro Gln Gly Gly Tyr Pro Gln Gly Pro Tyr Pro Gln Glu Gly
 1 5 10 15

Tyr Pro Gln Gly Pro Tyr Pro Gln Gly Gly Tyr Pro Gln Gly Pro Tyr
 20 25 30
 Pro Gln Ser Pro Phe Pro Pro Asn Pro Tyr Gly Gln Pro Gln Val Phe
 35 40 45
 Pro Gly Gln Asp Pro Asp Ser Pro Gln His Gly Asn Tyr Gln Glu Glu
 50 55 60
 Gly Pro Pro Ser Tyr Tyr Asp Asn Gln Asp Phe Pro Ala Thr Asn Trp
 65 70 75 80
 Asp Asp Lys Ser Ile Arg Gln Ala Phe Ile Arg Lys Val Phe Leu Val
 85 90 95
 Leu Thr Leu Gln Leu Ser Val Thr Leu Ser Thr Val Ser Val Phe Thr
 100 105 110
 Phe Val Ala Glu Val Lys Gly Phe Val Arg Glu Asn Val Trp Thr Tyr
 115 120 125
 Tyr Val Ser Tyr Ala Val Phe Phe Ile Ser Leu Ile Val Leu Ser Cys
 130 135 140
 Cys Gly Asp Phe Arg Arg Lys His Pro Trp Asn Leu Val Ala Leu Ser
 145 150 155 160
 Val Leu Thr Ala Ser Leu Ser Tyr Met Val Gly Met Ile Ala Ser Phe
 165 170 175
 Tyr Asn Thr Glu Ala Val Ile Met Ala Val Gly Ile Thr Thr Ala Val
 180 185 190
 Cys Phe Thr Val Val Ile Phe Ser Met Gln Thr Arg Tyr Asp Phe Thr
 195 200 205
 Ser Cys Met Gly Val Leu Leu Val Ser Met Val Val Leu Phe Ile Phe
 210 215 220
 Ala Ile Leu Cys Ile Phe Ile Arg Asn Arg Ile Leu Glu Ile Val Tyr
 225 230 235 240
 Ala Ser Leu Gly Ala Leu Leu Phe Thr Cys Phe Leu Ala Val Asp Thr
 245 250 255
 Gln Leu Leu Leu Gly Asn Lys Gln Leu Ser Leu Ser Pro Glu Glu Tyr
 260 265 270
 Val Phe Ala Ala Leu Asn Leu Tyr Thr Asp Ile Ile Asn Ile Phe Leu
 275 280 285
 Tyr Ile Leu Thr Ile Ile Gly Arg Ala Lys Glu Xaa Pro Ser Ser Ser
 290 295 300
 Ser Leu Cys Pro Leu Arg Trp His Gly Trp Pro Gly Pro Cys Pro Trp
 305 310 315 320
 His Gly Ser Ala Ser Cys Thr Ser Pro Leu Ser Cys Pro Gln Ala Gln
 325 330 335
 Pro Arg Glu Lys Asp Ala Ser Leu Gln Pro Ser Cys Met Tyr Thr Ala
 340 345 350
 Asp Thr Ser Ile Trp Thr Arg Cys Gly His Ser Met Ala Pro Leu Val
 355 360 365
 Leu Pro Pro Pro Arg Gly Thr Lys Ala Thr Phe Pro Cys His Leu
 370 375 380
 Leu Ser Thr His Cys Cys Met Ser Pro Val Cys Gln Pro Thr Pro Gly
 385 390 395 400
 Thr Gly Gly Ser Thr Arg Ser Arg Gly Glu Gly Leu Ser Gln Glu Val
 405 410 415
 Arg Val His Val Phe Pro Pro Val Pro Ala Pro Gln Pro Gly Val Glu
 420 425 430
 His Pro Ser Pro Pro Pro His Pro Pro Gly Val Leu Pro Ser Gly Asp
 435 440 445
 Met Arg Ser Gly Gly Leu Ile Pro Val Leu Ser Pro Glu
 450 455 460 461

<210> 2421

<211> 119

<212> PRT

<213> Homo sapiens

<221> misc_feature
 <222> (1)...(118)
 <223> Xaa = any amino acid or nothing

<400> 2421
 Ala Arg Gly Asn Thr Leu Tyr His Leu Pro Arg Leu Cys Arg Lys Leu
 1 5 10 15
 Asn Leu Arg Trp Phe Ser Ala Ser Thr Leu Tyr Asp Val Gln His Asp
 20 25 30
 Asp Lys Met Gly Ser Asn Thr Phe Phe Lys Arg Asn Asp Cys Arg Tyr
 35 40 45
 Val Met Ile Ser Cys Lys Ala Asp Met Ala Tyr Asp Asn Val Arg His
 50 55 60
 Pro Phe Met Ile Xaa Ser Ile Lys Leu Ile Met Glu Glu Thr Tyr Leu
 65 70 75 80
 Asn Ile Ile Lys Ala Val Tyr Asp Arg Pro Thr Ala Ser Ile Ile Leu
 85 90 95
 Asn Gly Glu Lys Leu Lys Val Phe Pro Val Arg Ser Gly Thr Xaa Gln
 100 105 110
 Gly Cys Ser Val Trp Pro
 115 118

<210> 2422
 <211> 211
 <212> PRT
 <213> Homo sapiens

<221> misc_feature
 <222> (1)...(206)
 <223> Xaa = any amino acid or nothing

<400> 2422
 Met Glu Ser Val Leu Ser Lys Tyr Glu Asp Gln Ile Thr Ile Phe Thr
 1 5 10 15
 Asp Tyr Leu Glu Glu Tyr Pro Asp Thr Asp Glu Leu Val Trp Ile Leu
 20 25 30
 Gly Lys Gln His Leu Leu Lys Thr Glu Lys Ser Lys Leu Leu Ser Asp
 35 40 45
 Ile Ser Ala Arg Leu Trp Phe Thr Tyr Arg Arg Lys Phe Ser Pro Ile
 50 55 60
 Gly Gly Thr Gly Pro Ser Ser Asp Ala Gly Trp Gly Cys Met Leu Arg
 65 70 75 80
 Cys Gly Gln Met Met Leu Ala Gln Ala Leu Ile Cys Arg His Leu Gly
 85 90 95
 Arg Asp Trp Ser Trp Glu Lys Gln Lys Glu Gln Pro Lys Glu Tyr Gln
 100 105 110
 Arg Ile Leu Gln Cys Phe Leu Asp Arg Lys Asp Cys Cys Tyr Ser Ile
 115 120 125
 His Gln Met Ala Gln Met Gly Val Gly Glu Gly Lys Ser Ile Gly Glu
 130 135 140
 Trp Val Leu Gly Pro Asn Thr Val Ala Gln Gly Val Xaa Lys Asn Leu
 145 150 155 160
 Ala Leu Phe Asp Glu Trp Asn Ser Leu Gly Leu Val Tyr Val Ser Met
 165 170 175
 Asp Asn Pro Ser Gly Ser Ile Ala Arg Phe Pro Lys Lys Leu Cys Arg
 180 185 190
 Val Leu Pro Leu Ser Ala Asp Thr Ala Gly Leu Thr Gly Pro
 195 200 205 206

<210> 2423
 <211> 89
 <212> PRT
 <213> Homo sapiens
 <221> misc_feature
 <222> (1)...(89)
 <223> Xaa = any amino acid or nothing

<400> 2423
 Asp Phe Ser Val Xaa Gly Asp Val Asp Ile Glu Val Thr Cys Pro Ile
 1 5 10 15
 Cys Leu Gln Leu Leu Thr Glu Pro Leu Ser Leu Asn Cys Gly Leu Arg
 20 25 30
 Leu Xaa Gln Val Cys Ile Thr Ala Xaa Ile Lys Glu Ser Val Ile Ile
 35 40 45
 Ser Gly Gly Xaa Ser Ser Ser Pro Val Cys His Thr Thr Phe Gln Pro
 50 55 60
 Ala Asn Leu Arg Thr Ser Arg Tyr Leu Pro Thr Xaa Ser Ile Lys Ser
 65 70 75 80
 Leu Gly Pro Asp Glu Pro Gln Glu Gly
 85 89

<210> 2424
 <211> 124
 <212> PRT
 <213> Homo sapiens
 <221> misc_feature
 <222> (1)...(123)
 <223> Xaa = any amino acid or nothing

<400> 2424
 His Leu Gln Gly Arg Ser Ile Arg Thr Leu Gln Leu Thr Gly Glu Asn
 1 5 10 15
 Glu Lys Asn Cys Glu Val Ser Glu Arg Ile Arg Arg Ser Gly Pro Trp
 20 25 30
 Lys Glu Ile Ser Phe Gly Asp Tyr Ile Cys His Thr Phe Gln Gly Asp
 35 40 45
 Cys Trp Ala Asp Arg Ser Pro Leu His Glu Ala Ala Ala His Gly Arg
 50 55 60
 Leu Leu Ala Leu Lys Thr Leu Ile Ala Gln Gly Val Asn Val Asn Leu
 65 70 75 80
 Trp Thr Leu Asp Arg Val Ser Ser Leu His Glu Ala Cys Leu Xaa Gly
 85 90 95
 Pro Val Ala Cys Ala Lys Pro Tyr Trp Lys Met Val Pro Arg His Gly
 100 105 110
 Gly Thr Val Thr Gly Pro Pro Leu Leu Met Val
 115 120 123

<210> 2425
 <211> 349
 <212> PRT
 <213> Homo sapiens
 <221> misc_feature
 <222> (1)...(349)

<223> Xaa = any amino acid or nothing

<400> 2425

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Arg Ser Gly Asp Arg Asn Gly Leu Thr His Gln Leu Gly Gly Leu Ser
 1          5          10          15
Gln Gly Ser Arg Asn Gln Ser Tyr Arg Ser Arg Ser Arg Ser Arg Ser
          20          25          30
Arg Glu Arg Pro Ser Ala Pro Arg Gly Ile Pro Phe Ala Ser Ala Ser
          35          40          45
Ser Ser Val Tyr Tyr Gly Ser Tyr Ser Arg Pro Tyr Gly Ser Asp Lys
          50          55          60
Pro Trp Pro Ser Leu Leu Asp Lys Glu Arg Glu Glu Ser Leu Arg Gln
          65          70          75          80
Lys Arg Leu Ser Glu Arg Glu Arg Ile Gly Glu Leu Gly Ala Pro Glu
          85          90          95
Val Trp Gly Leu Ser Pro Lys Asn Pro Glu Pro Asp Ser Asp Glu His
          100          105          110
Thr Pro Val Glu Asp Glu Glu Pro Lys Lys Ser Thr Thr Ser Ala Ser
          115          120          125
Thr Ser Glu Glu Glu Lys Lys Lys Lys Ser Ser Arg Ser Lys Glu Arg
          130          135          140
Ser Lys Lys Arg Arg Lys Lys Lys Ser Ser Lys Arg Lys His Lys Lys
          145          150          155          160
Tyr Ser Glu Asp Ser Asp Ser Asp Ser Asp Ser Glu Thr Asp Ser Ser
          165          170          175
Asp Glu Asp Asn Lys Arg Arg Ala Lys Lys Ala Lys Lys Lys Glu Lys
          180          185          190
Lys Lys Lys His Arg Ser Lys Lys Tyr Lys Lys Lys Arg Ser Lys Lys
          195          200          205
Ser Arg Lys Glu Ser Ser Asp Ser Ser Ser Lys Glu Ser Gln Glu Glu
          210          215          220
Phe Leu Glu Asn Pro Trp Lys Asp Arg Thr Lys Ala Glu Glu Pro Ser
          225          230          235          240
Asp Leu Ile Gly Pro Glu Ala Pro Lys Thr Leu Thr Ser Gln Asp Asp
          245          250          255
Lys Pro Leu Asn Tyr Gly His Ala Leu Leu Pro Gly Glu Gly Ala Ala
          260          265          270
Met Ala Glu Tyr Val Lys Ala Gly Lys Arg Ile Pro Arg Arg Gly Glu
          275          280          285
Ile Gly Leu Thr Arg Xaa Arg Asn Cys His His Leu Asn Ala Gln Val
          290          295          300
Met Xaa Xaa Val Val Ser Arg His Arg Arg Met Glu Ala Val Arg Thr
          305          310          315          320
Ala Lys Arg Glu Pro Glu Ser Thr Val Leu Met Arg Arg Glu Pro Leu
          325          330          335
His Pro Phe Asn Pro Arg Arg Glu Thr Lys Glu Arg Glu
          340          345          349

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<210> 2426

<211> 216

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(214)

<223> Xaa = any amino acid or nothing

<400> 2426

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Gly Arg Ser Thr Glu Ala Glu Lys Glu Pro Ala Phe Asp Glu Arg Thr
 1          5          10          15

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Gly Lys Gly Arg Arg Leu Pro Arg Ala Gly Glu Phe His Gly Xaa Glu
 20 25 30
 Xaa Ala Pro Gly Pro Gly Pro Arg Ser Phe Gln Val Ser Arg Lys Met
 35 40 45
 Pro Glu Glu Pro Pro Gly Ala Arg Lys His Pro Phe Ser Gly Lys Ser
 50 55 60
 Phe Tyr Leu Asp Leu Pro Ala Gly Lys Asn Leu Gln Phe Leu Thr Gly
 65 70 75 80
 Ala Ile Gln Gln Leu Gly Gly Val Ile Glu Gly Phe Leu Ser Lys Glu
 85 90 95
 Val Ser Tyr Ile Val Ser Ser Arg Arg Glu Val Lys Ala Glu Ser Ser
 100 105 110
 Gly Lys Ser His Arg Gly Cys Pro Ser Pro Ser Pro Ser Glu Val Arg
 115 120 125
 Val Glu Thr Ser Ala Met Val Asp Pro Lys Gly Ser His Pro Arg Pro
 130 135 140
 Ser Arg Lys Pro Val Asp Ser Val Pro Leu Ser Arg Gly Lys Glu Leu
 145 150 155 160
 Leu Gln Lys Ala Ile Arg Asn Gln Lys Xaa Xaa Cys Thr Val Gln Gln
 165 170 175
 Leu Ser His Cys Arg Leu Tyr Gly Glu Lys Thr Thr Ala Lys Arg Ser
 180 185 190
 Gln Arg Glu His Val Gln Gln Gln Ser Gln Glu His Gly Lys Trp Pro
 195 200 205
 Asp Leu Lys Gly Pro Arg
 210 214

<210> 2427

<211> 117

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(116)

<223> Xaa = any amino acid or nothing

<400> 2427

Ala Lys Ile Gly Ala Tyr Lys Tyr Ile Gln Glu Leu Trp Arg Lys Lys
 1 5 10 15
 Gln Ser Asp Val Met His Phe Leu Leu Arg Val Arg Cys Trp Gln Tyr
 20 25 30
 Pro Ala Leu His Arg Ala Gly Thr Glu Trp Gln Leu Ser Ala Leu His
 35 40 45
 Arg Ala Pro Arg Ser Thr Gln Pro Asp Lys Ala Cys Arg Leu Gly Tyr
 50 55 60
 Lys Ala Lys Gln Gly Tyr Ile Ile Tyr Arg Ile Cys Val Arg Arg Gly
 65 70 75 80
 Gly Trp Lys Cys Pro Val Pro Lys Ala Val Thr Tyr Gly Lys Pro Val
 85 90 95
 His His Gly Val Asn Xaa Leu Lys Phe Ala Gln Ser Leu Gln Ser Val
 100 105 110
 Ala Glu Glu Gln
 115 116

<210> 2428

<211> 82

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(82)

<223> Xaa = any amino acid or nothing

<400> 2428

Ala	Cys	Pro	Ala	Glu	Asn	Arg	Glu	Val	Pro	Glu	Met	Ala	Ala	Gly	Gln
1				5					10					15	
Ala	Pro	His	Ala	Gly	Pro	Gly	Ala	Gly	Pro	Gly	Gln	Pro	Ala	Pro	Ala
			20					25					30		
Leu	Pro	Phe	Ala	Ala	Thr	Pro	Gly	Ser	Arg	Gly	Gln	Ala	Leu	Cys	Arg
		35					40				45				
Gly	Gly	Arg	Arg	Arg	Gln	His	Leu	His	Gly	Pro	Leu	His	Arg	Pro	Xaa
	50					55				60					
Gln	Ala	Ala	Pro	Ala	Leu	His	Ala	Gly	Cys	Gln	Leu	Ala	Pro	His	Pro
	65				70					75					80
Pro	Thr														
	82														

<210> 2429

<211> 86

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(85)

<223> Xaa = any amino acid or nothing

<400> 2429

Asn	Leu	Ile	Trp	Lys	Leu	Cys	Val	Thr	Glu	Arg	Arg	Leu	Val	Ile	Leu
1				5					10					15	
Asp	Asn	Tyr	Asp	Leu	Ala	Ser	Glu	Tyr	Glu	Ala	Asn	Lys	Tyr	Ile	Cys
			20					25					30		
Asn	Arg	Ile	Ile	Gln	Phe	Lys	Pro	Gly	Gln	Asp	Lys	Tyr	Phe	Thr	Leu
		35					40				45				
Gly	Leu	Pro	Thr	Gly	Ser	Thr	Pro	Leu	Xaa	Cys	Tyr	Pro	Lys	Leu	Ile
	50					55				60					
Glu	Tyr	Asn	Lys	Asn	Gly	His	Leu	Ser	Phe	Lys	Tyr	Val	Lys	Thr	Phe
	65				70					75					80
Ser	Met	Asp	Glu	Tyr											
				85											

<210> 2430

<211> 470

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(468)

<223> Xaa = any amino acid or nothing

<400> 2430

Ser	Ser	Glu	Ser	Pro	Ser	Asp	Pro	Gly	Arg	Met	Ala	Met	Thr	Trp	Ile
1				5				10						15	
Val	Phe	Ser	Leu	Trp	Pro	Leu	Thr	Val	Phe	Met	Gly	His	Ile	Gly	Gly
			20					25					30		
His	Ser	Leu	Phe	Ser	Cys	Glu	Pro	Ile	Thr	Leu	Arg	Met	Cys	Gln	Asp
		35					40					45			

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Leu Pro Tyr Asn Thr Thr Phe Met Pro Asn Leu Leu Asn His Tyr Asp
  50                      55                      60
Gln Gln Thr Ala Ala Leu Ala Met Glu Pro Phe His Pro Met Val Asn
  65                      70                      75                      80
Leu Asp Cys Ser Arg Asp Phe Arg Pro Phe Leu Cys Ala Leu Tyr Ala
                      85                      90                      95
Pro Ile Cys Met Glu Tyr Gly Arg Val Thr Leu Pro Cys Arg Arg Leu
                      100                    105                    110
Cys Gln Arg Ala Tyr Ser Glu Cys Ser Lys Leu Met Glu Met Phe Gly
                      115                    120                    125
Val Pro Trp Pro Glu Asp Met Glu Cys Ser Arg Phe Pro Asp Cys Asp
                      130                    135                    140
Glu Pro Tyr Pro Arg Leu Val Asp Leu Asn Leu Ala Gly Glu Pro Thr
145                      150                      155                      160
Glu Gly Ala Pro Val Ala Val Gln Arg Asp Tyr Gly Phe Trp Cys Pro
                      165                      170                      175
Arg Glu Leu Lys Ile Asp Pro Asp Leu Gly Tyr Ser Phe Leu His Val
                      180                    185                    190
Arg Asp Cys Ser Pro Pro Cys Pro Asn Met Tyr Phe Arg Arg Glu Glu
                      195                    200                    205
Leu Ser Phe Ala Arg Tyr Phe Ile Gly Leu Ile Ser Ile Ile Cys Leu
210                      215                      220
Ser Ala Thr Leu Phe Thr Phe Val Thr Phe Leu Ile Asp Val Thr Arg
225                      230                      235                      240
Phe Arg Tyr Pro Glu Arg Pro Ile Lys Cys Tyr Ala Val Trp His Met
                      245                    250                    255
Met Val Ser Leu Ile Phe Phe Ile Gly Phe Leu Leu Glu Asp Arg Val
                      260                    265                    270
Ala Cys Asn Ala Ser Ile Pro Ala Gln Tyr Lys Ala Ser Thr Val Thr
275                      280                      285
Gln Gly Ser His Asn Lys Ala Cys Thr Met Leu Phe Met Ile Leu Tyr
290                      295                      300
Phe Phe Thr Met Ala Gly Ser Val Trp Trp Val Ile Leu Thr Ile Thr
305                      310                      315                      320
Trp Phe Leu Ala Ala Val Pro Lys Trp Gly Ser Glu Ala Ile Glu Lys
                      325                      330                      335
Lys Ala Leu Leu Phe His Ala Ser Ala Trp Gly Ile Pro Gly Thr Leu
                      340                    345                    350
Thr Ile Ile Leu Leu Ala Met Asn Lys Ile Glu Gly Asp Asn Ile Ser
355                      360                      365
Gly Val Cys Phe Val Gly Leu Tyr Asp Val Asp Ala Leu Arg Tyr Phe
370                      375                      380
Val Leu Ala Pro Leu Cys Leu Tyr Val Val Val Gly Val Ser Leu Leu
385                      390                      395                      400
Leu Ala Gly Ile Ile Ser Leu Asn Arg Val Arg Ile Glu Ile Pro Leu
                      405                      410                      415
Xaa Lys Glu Asn Gln Asp Lys Leu Val Lys Phe Met Ile Arg Ile Gly
                      420                    425                    430
Val Phe Ser Ile Leu Tyr Leu Val Pro Leu Leu Val Val Ile Gly Cys
                      435                    440                    445
Tyr Phe Tyr Glu Gln Ala Tyr Arg Gly Ile Trp Glu Thr Thr Trp Ile
450                      455                      460
Gln Glu Arg Cys
465                      468

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<210> 2431
<211> 122
<212> PRT
<213> Homo sapiens

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<221> misc_feature
<222> (1)...(121)

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<223> Xaa = any amino acid or nothing

<400> 2431

```

Glu Glu Arg Thr Lys Met Ser Thr Gly Pro Asp Val Lys Ala Thr Val
 1          5          10          15
Gly Asp Ile Ser Ser Asp Gly Asn Leu Asn Val Ala Gln Glu Cys
          20          25          30
Ser Arg Lys Gly Ile Val Asp Glu Phe Phe Pro Leu Leu Ser Asn Xaa
          35          40          45
Cys Ile Trp Thr Gln Pro Gln Gly Tyr Pro Gln Ser Ser Tyr Gly Thr
          50          55          60
Leu Ala Asn Phe Val Phe Cys Ser Val Arg His Gly Leu Ala Leu Ile
          65          70          75          80
Leu Gln Leu Cys Asn Phe Ser Ile Tyr Thr Gln Gln Met Asn Leu Ser
          85          90          95
Ile Ala Ile Pro Ala Met Val Asn Asn Thr Ala Pro Pro Ser Gln Pro
          100          105          110
Asn Ala Ser Thr Glu Arg Pro Ser Thr
          115          120 121

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<210> 2432

<211> 246

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(242)

<223> Xaa = any amino acid or nothing

<400> 2432

```

Pro Phe Gly Thr Pro Ser Ser Thr Met Ala Val Val Lys Asn Lys Cys
 1          5          10          15
Leu Met Lys Gly Lys Lys Gly Val Lys Lys Lys Val Val Gly Pro
          20          25          30
Phe Ser Lys Lys Asp Gln Tyr Asp Val Lys Ala Pro Ala Met Phe Asn
          35          40          45
Ile Arg Asn Thr Gly Lys Thr Leu Val Ala Arg Thr Gln Gly Thr Gln
          50          55          60
Ile Ala Ser Asp Gly Leu Lys Gly Leu Leu Phe Glu Val Ser Leu Ala
          65          70          75          80
Asp Leu Gln Asn Asp Glu Val Ala Phe Arg Lys Phe Lys Leu Ile Thr
          85          90          95
Glu Asp Val Gln Asp Lys Asn Cys Leu Thr Asn Phe Tyr Gly Met Asp
          100          105          110
Leu Thr Cys Asp Lys Ile Cys Ser Met Val Glu Lys Trp Ser Thr Met
          115          120          125
Ile Glu Ala His Val Asp Val Lys Thr Thr Asp Gly Tyr Phe Phe His
          130          135          140
Leu Phe Cys Val Gly Phe Thr Lys Lys His Asn Asn Gln Ile Leu Lys
          145          150          155          160
Thr Ser Tyr Ala Xaa His Gln Gln Ser Arg Gln Ile Gln Lys Lys Met
          165          170          175
Met Glu Ile Met Thr Xaa Glu Val Gln Thr Asn Asp Leu Lys Glu Val
          180          185          190
Val Asn Lys Leu Ile Pro Asp Asn Ile Gly Lys Asp Thr Glu Lys Val
          195          200          205
Cys Pro Ile Tyr Pro Leu His Asp Val Phe Ile Arg Lys Val Lys Met
          210          215          220
Leu Glu Asn Pro Gly Phe Glu Arg Met Glu Leu Arg Gly Gly Gly Ser
          225          230          235          240

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Ser Ser
242

<210> 2433
<211> 122
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(120)
<223> Xaa = any amino acid or nothing

<400> 2433
Leu Thr Trp Pro Gln Pro His Ile Pro Ser Cys Pro Ala Met Ser Glu
1 5 10 15
Glu Thr Leu Gln Ser Lys Leu Ala Ala Lys Lys Lys Leu Pro Trp
20 25 30
Gly Ala Val Gln Gly Ser Arg Ala Met Ser Asp Leu Leu Leu Leu
35 40 45
Leu Asp Leu Thr Leu Leu Leu Leu Met Leu Leu Gly Phe Ala Gly
50 55 60
Tyr Ser Gly Gln Leu Ala Gly Val Ala Val Ser Ala Gly Ser Pro Pro
65 70 75 80
Ile Arg Tyr Lys Phe His Val Glu Pro Tyr Gly Glu Thr Gly Trp Leu
85 90 95
Leu Thr Glu Ser Cys Ser Ile Ser Pro Lys Leu Cys Ser Ile Ala Val
100 105 110
His Xaa Asp Asn Pro Ala Trp Phe
115 120

<210> 2434
<211> 55
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(54)
<223> Xaa = any amino acid or nothing

<400> 2434
His Tyr Thr Pro Ile Asn Thr Asp Thr Ile Glu Asn Ser Glu Asn Asn
1 5 10 15
Lys Cys Trp Xaa Gly Tyr Xaa Glu Val Gly Leu Ile His His Trp Trp
20 25 30
Gly Gly Lys Arg Val Gln Pro Phe Trp Lys Arg Val Trp Gln Lys Arg
35 40 45
Thr Leu Asn Leu Arg Val
50 54

<210> 2435
<211> 137
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(132)

<223> Xaa = any amino acid or nothing

<400> 2435
 His Met Gly Gln Leu Gly Tyr Phe Ile Gln Cys Trp Trp Glu Cys Lys
 1 5 10 15
 Arg Leu Ile Ser Phe Trp Lys Thr Ile Xaa Gln Ser Pro Ala Lys Xaa
 20 25 30
 Thr Ile Tyr Thr Ser Tyr Asp Thr Ala Ile Pro Ile Ser Gly Ile Tyr
 35 40 45
 Pro Lys Arg Met Ser Ser Lys Cys His Gln Glu Thr Cys Ala Arg Met
 50 55 60
 Phe Ile Leu Ala Pro Phe Thr Ala Thr Ile Lys Gly Lys Gln Leu Thr
 65 70 75 80
 Cys Pro Leu Val Glu Glu Arg Ile Asp Tyr Met Trp Tyr Ser His Lys
 85 90 95
 Tyr Tyr Ile Lys Val Lys Arg Asn Leu Xaa Val Thr Ile Thr His Thr
 100 105 110
 Trp Val Asn Leu Asn Ile Leu Met Phe Glu Ile Ile Leu Trp Tyr Ser
 115 120 125
 His Lys Tyr Tyr
 130 132

<210> 2436

<211> 53

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(53)

<223> Xaa = any amino acid or nothing

<400> 2436
 His Xaa Lys Ile Leu Gln Val Gly Arg Ala Gln Arg Ala His Xaa Ser
 1 5 10 15
 Arg Leu Xaa Ser Gln Leu Leu Arg Arg Leu Arg His Glu Ser His Leu
 20 25 30
 Asn Pro Gly Ala Arg Gly Cys Ser Glu Ala Arg Leu His Arg Cys Thr
 35 40 45
 Pro Ala Trp Thr Thr
 50 53

<210> 2437

<211> 91

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(91)

<223> Xaa = any amino acid or nothing

<400> 2437
 Leu His Val Lys His Leu Gly His Phe Gln Leu Val Phe Ser Glu Val
 1 5 10 15
 Ile Cys His Cys Ile Leu Met Pro Val Ser Xaa Glu Leu Gln Arg Leu
 20 25 30
 Xaa Glu Arg Ser Val Cys Ala Phe His Val Cys Ile Gln Thr Tyr Val
 35 40 45

```

Cys Leu Gln Val Tyr Ala Cys Met Cys Val Tyr Tyr Ile Cys Met Phe
  50                      55                      60
Val Tyr Ser Val Tyr Gly Cys Gly Leu Cys Thr Cys Val Cys Met Asp
  65                      70                      75                      80
Val Tyr Ile Cys Val Cys Val Gln Glu Phe Leu
                      85                      90  91

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<210> 2438
<211> 145
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(138)
<223> Xaa = any amino acid or nothing

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<400> 2438
Asn Xaa Lys Trp Ile Leu His Val Asn Val Arg Ile Gln Ser Ile Phe
  1                      5                      10                      15
Phe Ile Lys Arg Asn Gln Lys Ile Asn Ser His Glu Leu Lys Leu Asp
                      20                      25                      30
Lys Lys Phe Leu Asp Met Met Ser Asn Ala Xaa Ser Thr Lys Lys His
                      35                      40                      45
Asp Lys Leu Asp Leu Ile Lys Phe Lys Thr Leu Cys Ser Ala Lys Tyr
                      50                      55                      60
Thr Val Lys Arg Ile Lys Ile His Pro Thr Asp Leu Glu Lys Met Leu
                      65                      70                      75                      80
Arg Asn His Leu Ser Asp Lys Asp Xaa Tyr Ser Gly Val Tyr Lys Asp
                      85                      90                      95
Leu Ser Lys Leu Asn Arg Arg Lys Thr Glu Ser Xaa Val Lys Lys Trp
                      100                     105                     110
Val Lys Asp Leu Ser Arg Tyr Phe Ile Lys Glu Val Ile Ser Met Glu
                      115                     120                     125
Asn Lys His Lys Lys Ile Phe Ser Thr Ser
130                      135                      138

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<210> 2439
<211> 90
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(90)
<223> Xaa = any amino acid or nothing

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<400> 2439
Met Ala Leu Thr Pro Glu Ser Pro Ser Ser Phe Pro Gly Leu Ala Ala
  1                      5                      10                      15
Thr Gly Ser Ser Val Pro Glu Pro Pro Gly Gly Pro Asn Ala Thr Leu
                      20                      25                      30
Asn Ser Ser Trp Asp Ser Pro Thr Glu Pro Ser Ser Leu Glu Asp Leu
                      35                      40                      45
Glu Ala Thr Gly Thr Ile Gly Thr Leu Leu Ser Asp Met Gly Val Val
                      50                      55                      60
Gly Val Glu Asp Asn Ala Tyr Thr Leu Glu Val Asn Ser Arg Tyr Met
                      65                      70                      75                      80
Arg Ala Val Gly Ile Met Xaa Ile His Leu
                      85                      90

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<210> 2440
 <211> 118
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(116)
 <223> Xaa = any amino acid or nothing

<400> 2440
 Ser Asn Ile Thr Ile Thr Leu Thr Xaa Met Lys Lys Tyr Asp Asn Thr
 1 5 10 15
 Phe Cys Trp Xaa Gly Cys Gly Gln Ile Gly Thr Leu Ile Tyr Cys Trp
 20 25 30
 Gln Glu Ser Lys Phe Ile Gln Ala Phe Trp Ser Lys Ile Gln Gln Tyr
 35 40 45
 Leu Ala Xaa Ile Ser Ile His Ile Leu Phe Asp Pro Ala Phe Leu Phe
 50 55 60
 Leu Gly Gly Tyr Pro Gly Gly Thr Gln Ser Val Phe Leu Thr Gly Val
 65 70 75 80
 Leu Val Ser Ser Val Phe Tyr Asn Met Lys Met Leu His Thr Arg Leu
 85 90 95
 Leu Ile Ala Ala Leu Phe Ile Ile Val Gln Tyr Trp Lys Gln Ser Lys
 100 105 110
 Asp His Tyr Ile
 115 116

<210> 2441
 <211> 120
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(119)
 <223> Xaa = any amino acid or nothing

<400> 2441
 Tyr Pro Leu Pro Val Cys Ser Tyr Leu Ser Gly Pro Arg Gly Glu His
 1 5 10 15
 Trp Asn Ser Leu Gly Gly Lys Ser Ser Cys Pro Leu Pro Leu Pro Thr
 20 25 30
 Leu Val Ser Ser Arg Phe Lys Ile Ser Lys Val Ile Val Val Gly Asp
 35 40 45
 Leu Ser Val Gly Lys Thr Cys Leu Ile Asn Arg Xaa Gly Gly Ala Gly
 50 55 60
 Ala Glu Leu Gly Arg Val Gly Pro Ser Leu Ala Arg Trp Ala Gly Ser
 65 70 75 80
 Arg Ser Gln His Leu Val Pro Ser Gln Val Cys Lys Asp Ser Phe Asp
 85 90 95
 Lys Asn Tyr Lys Ala Pro Ile Gly Ala Asp Phe Glu Met Glu Arg Phe
 100 105 110
 Glu Val Leu Gly Ile Pro Phe
 115 119

<210> 2442

<211> 88
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(87)
 <223> Xaa = any amino acid or nothing

<400> 2442
 Ser Ser Phe Ile Lys Arg His Ile Leu Ile Phe Glu Asp Asp Trp His
 1 5 10 15
 Gln Thr Thr Cys Cys His His Pro His His Pro Phe Xaa Arg Cys Gln
 20 25 30
 Phe His Ile Phe Tyr Val Ser Val Gln Asn Ser Ile Ser Pro Ser Leu
 35 40 45
 Ser Val Ser Ser Ser His Pro Asp Arg Pro Asp His Glu Val His Gln
 50 55 60
 His Arg Ala Ala His His His Gln His Gly Gln Gly Pro Leu Gly His
 65 70 75 80
 Gly Leu Val Ala Arg Val Gly
 85 87

<210> 2443
 <211> 919
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(915)
 <223> Xaa = any amino acid or nothing

<400> 2443
 Ala Leu Leu Gly Leu Gln Gln Pro Ala Gln Ser Leu Ile Leu Ser Arg
 1 5 10 15
 Ser Ser Val Met Gly Val Arg Gly Leu Gln Gly Phe Val Gly Ser Thr
 20 25 30
 Cys Pro His Ile Cys Thr Val Val Asn Phe Lys Glu Leu Ala Glu His
 35 40 45
 His Arg Ser Lys Tyr Pro Gly Cys Thr Pro Thr Ile Val Val Asp Ala
 50 55 60
 Met Cys Cys Leu Arg Tyr Trp Tyr Thr Pro Glu Ser Trp Ile Cys Gly
 65 70 75 80
 Gly Gln Trp Arg Glu Tyr Phe Ser Ala Leu Arg Asp Phe Val Lys Thr
 85 90 95
 Phe Thr Ala Ala Gly Ile Lys Leu Ile Phe Phe Phe Asp Gly Met Val
 100 105 110
 Glu Gln Asp Lys Arg Asp Glu Trp Val Lys Arg Arg Leu Lys Asn Asn
 115 120 125
 Arg Glu Ile Ser Arg Ile Phe His Tyr Ile Lys Ser His Lys Glu Gln
 130 135 140
 Pro Gly Arg Asn Met Phe Phe Ile Pro Ser Gly Leu Ala Val Phe Thr
 145 150 155 160
 Arg Phe Ala Leu Lys Thr Leu Gly Gln Glu Thr Leu Cys Ser Leu Gln
 165 170 175
 Glu Ala Asp Tyr Glu Val Ala Ser Tyr Gly Leu Gln His Asn Cys Leu
 180 185 190
 Gly Ile Leu Gly Glu Asp Thr Asp Tyr Leu Ile Tyr Asp Thr Cys Pro
 195 200 205
 Tyr Phe Ser Ile Ser Glu Leu Cys Leu Glu Ser Leu Asp Thr Val Met
 210 215 220

Leu Cys Arg Glu Lys Leu Cys Glu Ser Leu Gly Leu Cys Val Ala Asp
 225 230 235 240
 Leu Pro Leu Leu Ala Cys Leu Leu Gly Asn Asp Ile Ile Pro Glu Gly
 245 250 255
 Met Phe Glu Ser Phe Arg Tyr Lys Cys Leu Ser Ser Tyr Thr Ser Val
 260 265 270
 Lys Glu Asn Phe Asp Lys Lys Gly Asn Ile Ile Leu Ala Val Ser Asp
 275 280 285
 His Ile Ser Lys Val Leu Tyr Leu Tyr Gln Gly Glu Lys Lys Leu Glu
 290 295 300
 Glu Ile Leu Pro Leu Val Thr Lys Gln Ser Ser Phe Leu Xaa Arg Asn
 305 310 315 320
 Gly Ile Ile Ser Phe Thr Arg Thr Ile Asn Leu His Gly Phe Ser Lys
 325 330 335
 Asn Pro Lys Val Xaa Xaa Leu Trp Thr Asn Lys Xaa Tyr Pro Arg Val
 340 345 350
 Gln Thr Pro Asn Pro Gly Lys Lys Phe Pro Cys Val Gln Met Leu Asn
 355 360 365
 Pro Gly Lys Lys Phe Pro Cys Val Gln Ala Leu Asn Pro Gly Glu Lys
 370 375 380
 Phe Pro Cys Ile His Ile Pro Glu Pro Arg Gln Glu Val Pro Thr Cys
 385 390 395 400
 Ser Asp Pro Glu Pro Arg Gln Glu Val Pro Thr Cys Thr Gly Pro Glu
 405 410 415
 Ser Arg Arg Glu Val Pro Met Cys Ser Asp Pro Glu Pro Arg Gln Glu
 420 425 430
 Val Pro Met Cys Thr Gly Pro Glu Pro Arg Gln Glu Val Pro Met Cys
 435 440 445
 Thr Gly Pro Glu Ala Arg Gln Glu Val Pro Met Cys Thr Asp Ser Glu
 450 455 460
 Pro Arg Gln Glu Val Pro Met Cys Thr Asp Ser Glu Pro Arg Gln Glu
 465 470 475 480
 Val Pro Met Tyr Thr Gly Ser Glu Pro Arg Gln Glu Val Pro Met Tyr
 485 490 495
 Thr Gly Pro Glu Ser Arg Gln Glu Val Pro Met Tyr Thr Gly Pro Glu
 500 505 510
 Ser Arg Gln Glu Val Leu Ile Arg Thr Asp Pro Glu Ser Arg Gln Glu
 515 520 525
 Ile Met Cys Thr Gly His Glu Ser Lys Gln Glu Val Pro Ile Cys Thr
 530 535 540
 Asp Pro Ile Ser Lys Gln Glu Asp Ser Met Cys Thr His Ala Glu Ile
 545 550 555 560
 Asn Gln Lys Leu Pro Val Ala Thr Asp Phe Glu Phe Lys Leu Glu Ala
 565 570 575
 Leu Met Cys Thr Asn Pro Glu Ile Lys Gln Glu Asp Pro Thr Asn Val
 580 585 590
 Gly Pro Glu Val Lys Gln Gln Val Thr Met Val Ser Asp Thr Glu Ile
 595 600 605
 Leu Lys Val Ala Arg Thr His His Val Gln Ala Glu Ser Tyr Leu Val
 610 615 620
 Tyr Asn Ile Met Ser Ser Gly Glu Ile Glu Cys Ser Asn Thr Leu Glu
 625 630 635 640
 Asp Glu Leu Asp Gln Ala Leu Pro Ser Gln Ala Phe Ile Tyr Arg Pro
 645 650 655
 Ile Arg Gln Arg Val Tyr Ser Leu Leu Leu Glu Asp Cys Gln Asp Val
 660 665 670
 Thr Ser Thr Cys Leu Ala Val Lys Glu Trp Phe Val Tyr Pro Gly Asn
 675 680 685
 Pro Leu Arg His Pro Asp Leu Val Arg Pro Leu Gln Met Thr Ile Pro
 690 695 700
 Gly Gly Thr Pro Ser Leu Lys Ile Leu Trp Leu Asn Gln Glu Pro Glu
 705 710 715 720
 Ile Gln Val Arg Arg Leu Asp Thr Leu Leu Ala Cys Phe Asn Leu Ser
 725 730 735

```

Ser Ser Arg Glu Glu Leu Gln Ala Val Glu Ser Pro Phe Gln Ala Leu
      740      745      750
Cys Cys Leu Leu Ile Tyr Leu Phe Val Gln Val Asp Thr Leu Cys Leu
      755      760      765
Glu Asp Leu His Ala Phe Ile Ala Gln Ala Leu Cys Leu Gln Gly Lys
      770      775      780
Ser Thr Ser Gln Leu Val Asn Leu Gln Pro Asp Tyr Ile Asn Pro Arg
      785      790      795      800
Ala Val Gln Leu Gly Ser Leu Leu Val Arg Gly Leu Thr Thr Leu Val
      805      810      815
Leu Val Asn Ser Ala Cys Gly Phe Pro Trp Lys Thr Ser Asp Phe Met
      820      825      830
Pro Trp Asn Val Phe Asp Gly Lys Leu Phe His Gln Lys Tyr Leu Gln
      835      840      845
Ser Glu Lys Gly Tyr Ala Val Glu Val Leu Cys Arg Thr Lys Xaa Ile
      850      855      860
Ser Ala His Gln Ile Pro Gln Pro Glu Gly Ser Arg Leu Gln Gly Leu
      865      870      875      880
His Glu Gly Glu Gln Thr His His Trp Pro Ser Pro Leu Gly Leu Thr
      885      890      895
Pro Arg Arg Glu Val Gly Lys Thr Gly Leu Gln Leu Pro Gln Asp Gly
      900      905      910
Leu Trp Val
      915

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<210> 2444
<211> 246
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(245)
<223> Xaa = any amino acid or nothing

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```

<400> 2444
Ala Arg Glu Ala Cys Arg Ala Lys Thr Asp Phe Pro Gly Arg Arg Phe
 1      5      10      15
Arg Leu Trp Pro Ser Cys Cys Cys Arg Val Ile Val Gly Ala Glu Thr
      20      25      30
Xaa His Met Ala Glu Pro Val Ser Pro Leu Lys His Phe Val Leu Ala
      35      40      45
Lys Lys Ala Ile Thr Ala Ile Phe Asp Gln Leu Leu Glu Phe Val Thr
      50      55      60
Glu Gly Ser His Phe Val Glu Ala Thr Tyr Lys Asn Pro Glu Leu Asp
      65      70      75      80
Arg Ile Ala Thr Glu Asp Asp Leu Val Glu Met Gln Gly Tyr Lys Asp
      85      90      95
Lys Leu Ser Ile Ile Gly Glu Val Leu Ser Arg Arg His Met Lys Val
      100      105      110
Ala Phe Phe Gly Arg Thr Ser Ser Gly Lys Ser Ser Val Ile Asn Ala
      115      120      125
Met Leu Trp Asp Lys Val Leu Pro Ser Gly Ile Gly His Ile Thr Asn
      130      135      140
Cys Phe Leu Ser Val Glu Gly Thr Asp Gly Asp Lys Ala Tyr Leu Met
      145      150      155      160
Thr Glu Gly Ser Asp Glu Lys Lys Ser Val Lys Thr Val Asn Gln Leu
      165      170      175
Ala His Ala Leu His Met Asp Lys Asp Leu Lys Ala Gly Cys Leu Val
      180      185      190
Arg Val Phe Trp Pro Lys Ala Lys Cys Ala Leu Leu Arg Asp Asp Leu
      195      200      205

```

Val Leu Val Asp Gly Pro Gly Thr Asp Val Thr Thr Glu Leu Asp Ser
 210 215 220
 Trp Ile Asp Lys Phe Cys Thr Lys Ser Ser Thr Arg Glu Ile Thr Asn
 225 230 235 240
 Ser Gly Ser Asp Thr
 245

<210> 2445
 <211> 181
 <212> PRT
 <213> Homo sapiens
 <221> misc_feature
 <222> (1)...(179)
 <223> Xaa = any amino acid or nothing

<400> 2445
 Leu Val Leu Asn Ser Arg Val Glu Asp Phe Val Pro Pro Glu Gly Ala
 1 5 10 15
 Gly Arg Thr Leu Pro Phe Ala Leu Arg Pro Leu Ala Ala Cys Trp Leu
 20 25 30
 Leu His Arg Arg Ala Arg Arg Ser Ser Ala Leu Cys Pro Arg Pro Arg
 35 40 45
 Ser Trp Gly Val Ser Gly Gly Glu Gly Ala Gly Ala Arg Glu Pro Xaa
 50 55 60
 Ile Thr Ser Ser Ser Cys Cys Leu Ser Ala Ala Ser His Leu Ser Ile
 65 70 75 80
 Gln Ser Pro Asn Met Ala Gly Ala Arg Arg Arg Ile Arg Pro Gln Leu
 85 90 95
 Ala Lys Glu Lys Ile Glu Gly Cys His Ile Cys Thr Ser Val Thr Pro
 100 105 110
 Gly Glu Pro Gln Val Phe Leu Gly Lys Asp Lys Ala Phe Thr Phe Asp
 115 120 125
 Tyr Val Phe Asp Ile Asp Ser Gln Gln Glu Gln Ile Tyr Ile Gln Cys
 130 135 140
 Ile Glu Lys Leu Ile Glu Gly Cys Phe Glu Gly Tyr Asn Ala Thr Val
 145 150 155 160
 Phe Ala Tyr Gly Gln Thr Gly Ala Gly Lys Thr Tyr Thr Met Gly Thr
 165 170 175
 Gly Phe Asp
 179

<210> 2446
 <211> 95
 <212> PRT
 <213> Homo sapiens
 <221> misc_feature
 <222> (1)...(94)
 <223> Xaa = any amino acid or nothing

<400> 2446
 Phe Phe Phe Phe Asn Val Cys Lys Ser Pro Lys Val Pro Lys Pro Gly
 1 5 10 15
 Cys Lys Glu Glu Ser Thr Gly Thr Leu Phe Lys Asn Thr Leu Ile Ser
 20 25 30
 Leu Gly Gln His Ser Glu Thr Pro Ser Leu Lys Lys Lys Leu Ala Gly
 35 40 45

```

Tyr Ser Gly Met Cys Leu Xaa Ser Gln Val Leu Arg Arg Leu Arg Gln
  50          55          60
Glu Asp Cys Leu Ser Pro Gly Gly Gly Asn Cys Arg Glu Ser Xaa Ser
  65          70          75          80
Cys Pro Tyr Thr Pro Ala Trp Ile Thr Glu Arg Asp Pro Val
          85          90          94

```

```

<210> 2447
<211> 122
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(121)
<223> Xaa = any amino acid or nothing

```

```

<400> 2447
Ala Arg Ser Thr Gly Phe Trp Gly Glu Ile Leu Trp Cys Gly Phe Leu
  1          5          10          15
Lys Arg Ser Leu Ala Leu Ser Pro Arg Val Lys Cys Ser Gly Ala Ile
          20          25          30
Leu Ala His Cys Asn Phe Arg His Ala Gly Phe Pro Pro Leu Ser Cys
          35          40          45
Leu Ser Leu Pro Asn Arg Trp Glu Tyr Arg Arg Pro Pro Ala Arg Pro
          50          55          60
Gly Lys Phe Phe Leu Val Phe Leu Val Glu Thr Gly Phe Gln Cys Gly
          65          70          75          80
Xaa Asp Gly Leu Asp Leu Leu Thr Ser Arg Ser Ala Cys Leu Gly Leu
          85          90          95
Pro Lys Cys Trp Asp Tyr Arg Arg Glu Pro Ala Ala Ser Ile Ile Phe
          100          105          110
Gln Thr Thr Phe Phe Ile Asn Ser Lys
          115          120 121

```

```

<210> 2448
<211> 141
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(141)
<223> Xaa = any amino acid or nothing

```

```

<400> 2448
Lys Val Val Val Met Ser Cys Glu Asp Ile Asn Ile Ser Gly Ser Phe
  1          5          10          15
Tyr Arg Asn Lys Leu Lys Tyr Leu Ala Phe Leu Cys Lys Arg Thr Ser
          20          25          30
Thr Asn Pro Ser Gln Gly Pro Tyr His Leu Trp Val Pro Ser His Ile
          35          40          45
Phe Trp Gln Thr Thr Cys Gly Arg Leu Pro His Lys Thr Lys Gln Gly
          50          55          60
Xaa Ala Ala Leu Asp His Leu Lys Val Phe Asp Arg Ile Pro Leu Pro
          65          70          75          80
Tyr Asp Lys Lys Lys Gln Met Ala Val Ser Ala Thr Leu Glu Val Val
          85          90          95
Arg Pro Lys Pro Xaa Arg Lys Phe Ala Tyr Leu Gly His Trp Ala Gln
          100          105          110

```

Lys Val Asp Trp Lys Tyr Gln Ala Met Thr Ala Thr Met Gly Glu Lys
 115 120 125
 Arg Lys Val Tyr Tyr Gln Lys Ile Cys Tyr Gln Lys Lys
 130 135 140 141

<210> 2449
 <211> 96
 <212> PRT
 <213> Homo sapiens
 <221> misc_feature
 <222> (1)...(93)
 <223> Xaa = any amino acid or nothing

<400> 2449
 Ile Ile Phe Tyr Ser His Gln Gln Cys Met Arg Val Trp Gln Gly Cys
 1 5 10 15
 Gly Asp Ile Glu Thr Leu Ile His Cys Trp Xaa Glu Xaa Lys Ile Ile
 20 25 30
 His Ser Leu Trp Lys Thr Val Xaa Gln Phe Leu Lys Arg Leu Tyr Leu
 35 40 45
 His Leu Pro His Asn Ser Val Ile Ala Phe Leu Gly Ile Ser Pro Arg
 50 55 60
 Lys Ile Lys Thr Cys Pro Gln Asn Ser Cys Thr Ser Met Leu Ile Asn
 65 70 75 80
 Ala Ile His Asn Asp Gln Lys Trp Lys Lys Ile Asn Ile
 85 90 93

<210> 2450
 <211> 60
 <212> PRT
 <213> Homo sapiens
 <221> misc_feature
 <222> (1)...(60)
 <223> Xaa = any amino acid or nothing

<400> 2450
 Arg Gln Ser Leu Ala Leu Ser Pro Arg Leu Glu Cys Ser Gly Thr Ile
 1 5 10 15
 Ser Ala His Cys Arg Leu Cys Pro Leu Val Phe Thr Pro Leu Ser Cys
 20 25 30
 Leu Ser Leu Thr Ser Ser Trp Asp Tyr Arg Arg Pro Pro Pro His Pro
 35 40 45
 Ala Asn Phe Leu Tyr Phe Lys Xaa Arg Arg Gly Phe
 50 55 60

<210> 2451
 <211> 94
 <212> PRT
 <213> Homo sapiens
 <221> misc_feature
 <222> (1)...(92)
 <223> Xaa = any amino acid or nothing

<400> 2451

```

Leu Phe Phe Leu Arg Lys Val Ser Asn Gln Phe Leu Ser Pro Ser Leu
 1           5           10           15
Leu Pro Val Asn Phe Gln Gly Phe Val Phe Ala Phe Leu Leu Leu
          20           25           30
Leu Phe Leu Leu Phe Glu Met Glu Ser Leu Pro Val Ala Arg Val Glu
          35           40           45
Cys Ser Gly Thr Ile Ser Ala His Cys Asn Leu Cys Leu Pro Gly Ser
          50           55           60
Ser Asp Ser Pro Ala Ser Ala Ser Xaa Val Ala Gly Ile Thr Asp Met
          65           70           75           80
Cys Arg Tyr Thr Gln Leu Ile Leu Phe His Ala Ser
          85           90           92

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<210> 2452

<211> 260

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(258)

<223> Xaa = any amino acid or nothing

<400> 2452

```

Lys Thr Ser Met Phe Trp Lys Phe Asp Leu His Ser Ser Ser His Ile
 1           5           10           15
Asp Thr Leu Leu Glu Arg Glu Asp Val Thr Leu Lys Glu Leu Met Asp
          20           25           30
Glu Glu Asp Val Leu Gln Glu Cys Lys Ala Gln Asn Arg Lys Leu Ile
          35           40           45
Glu Phe Leu Leu Lys Ala Glu Cys Leu Glu Asp Leu Val Ser Phe Ile
          50           55           60
Xaa Glu Glu Pro Pro Gln Asp Met Asp Glu Lys Ile Arg Tyr Lys Tyr
          65           70           75           80
Pro Asn Ile Ser Cys Glu Leu Leu Thr Ser Asp Val Ser Gln Met Asn
          85           90           95
Asp Arg Leu Gly Glu Asp Glu Ser Leu Leu Met Lys Leu Tyr Ser Phe
          100          105          110
Leu Leu Asn Asp Ser Pro Leu Asn Pro Leu Leu Ala Ser Phe Phe Ser
          115          120          125
Lys Val Leu Ser Ile Leu Ile Ser Arg Lys Pro Glu Gln Ile Val Asp
          130          135          140
Phe Leu Lys Lys Lys His Asp Phe Val Asp Leu Ile Ile Lys His Ile
          145          150          155          160
Gly Thr Ser Ala Ile Met Asp Leu Leu Leu Arg Leu Leu Thr Cys Ile
          165          170          175
Glu Pro Pro Gln Pro Arg Gln Asp Val Leu Asn Trp Phe Lys Val Gln
          180          185          190
Arg Asn Leu Xaa His Ser Thr Xaa Asn Val Met Asp Ile Ser Lys Tyr
          195          200          205
Val Asn Leu His Trp Gly Leu Asn Lys Ser His Ser Leu Leu Xaa Leu
          210          215          220
Leu Leu Gln Cys Val Leu Gln Trp Leu Asn Glu Glu Lys Ile Ile Gln
          225          230          235          240
Arg Leu Val Glu Ile Val His Pro Ser Gln Glu Glu Asp Val Ser Ser
          245          250          255
Leu Val
          258

```

<210> 2453
 <211> 139
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(134)
 <223> Xaa = any amino acid or nothing

<400> 2453
 Gly Leu His Val Tyr Asp Phe Gln Val Tyr Arg Glu His Ile Leu Thr
 1 5 10 15
 Leu Asn Val Lys Lys Cys Ser Val Ser Phe Trp Gly Leu Arg Glu Trp
 20 25 30
 Leu Tyr Leu Gln Met Tyr Glu Ile Ile Lys Ser Pro Arg Phe Pro Ile
 35 40 45
 Ile Lys Met Thr Asp Ile Thr Lys Cys Trp Xaa Gly Cys Gly Ala Ala
 50 55 60
 Gly Met Gln Ile His Cys Trp Trp Cys Val Asn Val Gly Lys Phe Trp
 65 70 75 80
 Glu Met Ser Xaa Tyr Tyr Leu Leu Lys Leu Ser Ile Ser Thr Pro Tyr
 85 90 95
 Asp Pro Ala Ile Pro Leu Leu Gly Ile Tyr Leu Xaa Glu Thr Arg Val
 100 105 110
 Tyr Ile His Pro Lys Thr Cys Met Arg Met Leu Ile Ala Ala Pro Phe
 115 120 125
 Val Leu Ala Val Asn Cys
 130 134

<210> 2454
 <211> 108
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(105)
 <223> Xaa = any amino acid or nothing

<400> 2454
 Lys Trp Leu Phe Ser Ser Leu Asn Ile Thr Gly Arg Gly Asp Ile Ile
 1 5 10 15
 Gly His Leu Lys Trp Leu Asp Cys Arg Asn Cys Ser Ser Phe Pro Ile
 20 25 30
 Lys Arg Asn Arg Gln Thr His Ser Thr Glu Ser Asn Lys Leu Lys Ala
 35 40 45
 Gly His Ser Phe Gly Tyr Asn Xaa Leu Ile His Xaa Asn Ser Val Lys
 50 55 60
 Thr Asp Cys Gly Cys Gly Ala Asn Ser Lys Gly Val Val Val Val Met
 65 70 75 80
 Lys Val Lys Thr Ala Gln Gln Lys Gln Thr Thr Ser Tyr Met Gln Ile
 85 90 95
 Gly Thr Thr Lys Asn Ser Arg Ala Thr
 100 105

<210> 2455
 <211> 139
 <212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(138)

<223> Xaa = any amino acid or nothing

<400> 2455

```

Asp Leu Leu Ile Leu Arg Asn Leu Ala Phe Pro Glu Leu Lys Arg Arg
 1           5           10           15
Asn Cys Ile Ser Arg Phe Tyr Leu Ala Tyr His Leu His Lys Ile Tyr
          20           25           30
Ser Arg Ser Ile Leu Leu Cys Asn Asn Cys Ser Gly Phe Tyr Ile Leu
          35           40           45
Ser Leu Xaa Gln Tyr Asp Val Phe Phe Phe Asn Tyr Phe Phe Phe Arg
          50           55           60
Asp Arg Ala Trp Pro Cys Cys Pro Gly Trp Ser Ala Ala Trp Leu Thr
          65           70           75           80
Ile Val Ile Leu Ala His Tyr Arg Arg Pro Gly Leu Glu Arg Ser Cys
          85           90           95
Cys Leu Ser Leu Ser Ser Ser Trp Asp His Arg Arg Val Pro Pro Cys
          100          105          110
Pro Ala Asn Phe Xaa Tyr Phe Ser Met Gly Phe Thr Ala Phe Pro Arg
          115          120          125
Leu Val Leu Asn Ser Xaa Thr Gln Gly Ile
          130          135          138

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<210> 2456

<211> 48

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(48)

<223> Xaa = any amino acid or nothing

<400> 2456

```

Glu Ser Gly Ser Leu Ile His Xaa Trp Trp Glu Asn Lys Pro Ala Gln
 1           5           10           15
Pro Leu Trp Trp Glu Ile Xaa Gln His Val Gln Lys Leu Pro Thr His
          20           25           30
Phe Pro Cys Asp Pro Ala Ile Pro Leu Leu Gly Ile Cys Pro Glu Asp
          35           40           45           48

```

<210> 2457

<211> 192

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(188)

<223> Xaa = any amino acid or nothing

<400> 2457

```

Lys Pro Ser Ser Gly Ser Phe Ile Arg Ala Ile Tyr Ile Phe Leu Ser
 1           5           10           15

```



```

Thr Ala His Val Pro Ala Leu Phe Ser Val Leu Val Arg Thr Lys Leu
      20      25      30
Thr Xaa Ala Phe Ser Gln Ser Ser Val Leu Trp Ala His Lys Gln Gln
      35      40      45
Lys Thr Ser Leu Ser Leu Val Ile Arg Glu Arg Leu Gln Ile Lys Thr
      50      55      60
Ala Val Arg Glu Asn Phe Leu Pro Ile Arg Leu Ala Lys Ile Leu Lys
      65      70      75      80
Leu Asp Asn Val Lys Cys Trp Gln Gly Ser Gly Ser Asn Met Ser Leu
      85      90      95
Ile His Cys Trp Trp Glu Tyr Asn Val Ile His Ile Ile Trp Asn Ser
      100     105     110
Val Thr Phe Pro Arg Lys Val Glu His Val Tyr Ile Thr Tyr Ala Pro
      115     120     125
Glu Ile Ser Val Arg Xaa Ile His Gly Gly Leu Pro Thr Leu Val His
      130     135     140
Gln Glu Thr His Thr Ser Val Phe Arg Gly Ala Pro Ser Val Ile Pro
      145     150     155     160
Glu Thr Arg Cys Arg Pro Thr Lys Glu Ser Ile Asn Lys Leu Leu His
      165     170     175
Ile Tyr Thr Met Glu His Tyr Gly Asp Glu Asn Lys
      180     185     188

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<210> 2458

<211> 180

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(179)

<223> Xaa = any amino acid or nothing

```

<400> 2458
Gly Gly Asn Asp Cys Ser Val Thr Pro Thr Thr Glu Pro Gly Arg Lys
1      5      10      15
Glu Ile Thr Xaa Lys Arg Lys Phe Xaa Glu Lys Thr Asp Arg Leu Pro
      20      25      30
Gly Ala Pro Pro Ser Arg Thr Pro Pro Thr Pro Tyr Pro Cys Pro His
      35      40      45
Gly Asp Arg Leu Leu Pro Pro Ser Arg Pro Leu Pro Ala Gly Pro Ala
      50      55      60
Ser Ala Phe Pro Pro Ala Glu Arg Ser Arg Gly His Arg Arg Ala Ser
      65      70      75      80
Leu Xaa Arg Ala Arg Trp Ser Ala Ala Val Pro Arg Arg Ser Ala Gly
      85      90      95
Ser Ala Ser Glu Pro Val Gln Ser Arg Trp Leu Arg Leu Pro Val Gly
      100     105     110
Ser Asp Ser Pro Pro Ala Val Pro Val Arg Val Cys Pro Ala Pro Asp
      115     120     125
Ser Arg Pro Ala Ala Pro Gly Ser Arg Leu Pro Asp Pro Gly Leu Asp
      130     135     140
Ser Pro Ala Pro Ser Arg Thr Pro Ser Ser Ser Val Asp Xaa Gly Gly
      145     150     155     160
Gln Arg Pro Pro Pro Pro Ser Gly Asp Ser Leu Ser Pro Pro Gly Cys
      165     170     175
Cys Arg Tyr
      179

```

<210> 2459

<211> 57
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(57)
 <223> Xaa = any amino acid or nothing

<400> 2459
 His Glu Ser Tyr His Val Asn Pro Asn Leu Cys Asn Pro Val Ala Pro
 1 5 10 15
 Thr Ser Gly Ala His Ser Ile Gly Xaa Lys Trp Pro Ser Trp Leu Gly
 20 25 30
 Ala Val Ala His Ser Cys Asn Pro Ser Thr Leu Val Gly Arg Gly Gly
 35 40 45
 Arg Ile Thr Arg Gly Gln Glu Leu Arg
 50 55 57

<210> 2460
 <211> 109
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(108)
 <223> Xaa = any amino acid or nothing

<400> 2460
 Glu Glu Gln Phe Phe Phe Phe Ala Val Gly Met Phe Pro Xaa Val Asp
 1 5 10 15
 Phe Leu Ala Pro Ala Ser Gly Glu Leu Trp Asp Arg Leu Arg Leu Thr
 20 25 30
 Cys Ser Arg Pro Phe Thr Arg His Gln Ser Phe Gly Leu Ala Phe Leu
 35 40 45
 Arg Val Cys Ser Ser Leu Asp Ser Leu Asp Asp Ser Val Val Gly Pro
 50 55 60
 Ser Ala Leu Leu Ser Ser Val Leu Asn Gln Gly Gly Arg Asn Val Leu
 65 70 75 80
 Glu Ala Arg Glu Ala Ala Lys His Pro Thr Ile Xaa Arg Gln Ser Leu
 85 90 95
 Leu Arg Lys Gln Arg Asn Lys Arg Met Ala Ile Pro
 100 105 108

<210> 2461
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 2461
 Ser Phe Leu Ser Val Arg Leu Glu Cys Asn Gly Ala Ile Met Ala His
 1 5 10 15
 Cys Ala Leu Pro Leu Pro Gly
 20 23

<210> 2462

<211> 271
 <212> PRT
 <213> Homo sapiens
 <221> misc_feature
 <222> (1)...(270)
 <223> Xaa = any amino acid or nothing

<400> 2462
 Arg Arg Arg Gly Gly Gly Ser Arg Pro Arg Arg Thr Pro Val Pro Ala
 1 5 10 15
 Pro Gly Pro Gly Pro Ser Phe Gly Met Asp Val Arg Phe Tyr Pro Ala
 20 25 30
 Ala Ala Gly Asp Pro Ala Ser Leu Asp Phe Ala Gln Cys Leu Gly Tyr
 35 40 45
 Tyr Gly Tyr Ser Lys Phe Gly Asn Asn Asn Asn Tyr Met Asn Met Ala
 50 55 60
 Glu Ala Asn Asn Ala Phe Phe Ala Ala Ser Glu Gln Thr Phe His Thr
 65 70 75 80
 Pro Ser Leu Gly Asp Glu Glu Phe Glu Ile Pro Pro Ile Thr Pro Pro
 85 90 95
 Pro Glu Ser Asp Pro Ala Leu Gly Met Pro Asp Val Leu Leu Pro Phe
 100 105 110
 Gln Ala Leu Ser Asp Pro Leu Pro Ser Gln Gly Ser Glu Phe Thr Pro
 115 120 125
 Gln Phe Pro Pro Gln Ser Leu Asp Leu Pro Ser Ile Thr Ile Ser Arg
 130 135 140
 Asn Leu Val Glu Gln Asp Gly Val Leu His Ser Ser Gly Leu His Met
 145 150 155 160
 Asp Gln Ser His Thr Gln Val Ser Gln Tyr Arg Gln Asp Pro Ser Leu
 165 170 175
 Ile Met Arg Pro Ser Ser Thr Xaa Pro Asp Ala Ala Arg Ser Gly Val
 180 185 190
 Met Pro Pro Ala Gln Leu Thr Thr Ile Asn Gln Ser Gln Leu Ser Ala
 195 200 205
 Gln Leu Gly Leu Asn Leu Gly Gly Ala Ser Met Pro His Thr Ser Pro
 210 215 220
 Ser Pro Pro Ala Ser Lys Ser Ala Thr Pro Ser Pro Ser Ser Ser Ile
 225 230 235 240
 Asn Glu Glu Asp Ala Asp Glu Ala Asn Arg Ala Ile Gly Glu Lys Arg
 245 250 255
 Ala Ala Pro Asp Ser Gly Lys Lys Pro Lys Thr Pro Lys Lys
 260 265 270

<210> 2463
 <211> 134
 <212> PRT
 <213> Homo sapiens
 <221> misc_feature
 <222> (1)...(134)
 <223> Xaa = any amino acid or nothing

<400> 2463
 Phe Leu Arg Pro Ser Phe Ala Leu Val Pro Gln Ala Gly Val Gln Trp
 1 5 10 15
 Cys Ala Leu Ser Trp Leu Gln Pro Pro Ser Pro Arg Phe Lys Xaa Phe
 20 25 30
 Ser Cys Leu Ser Leu Pro Ser Ser Trp Asp Tyr Arg His Val Pro Pro
 35 40 45

```

Arg Pro Ala Asn Phe Phe Val Leu Leu Val Glu Thr Gly Phe Leu His
  50          55          60
Val Gly Gln Ala Gly His Glu Pro Leu Thr Ser Gly Asp Pro Pro Ala
  65          70          75          80
Ser Ala Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His Gln Ala Trp
          85          90          95
Pro Ser Phe Phe Ile Phe Ser Arg Asp Thr Val Leu Leu Cys Cys Ser
          100          105          110
Gly Trp Ser Arg Thr Ser Gly Leu Lys Gln Ser Ala Cys Leu Ser Leu
          115          120          125
Leu Lys Cys Trp Asp Tyr
  130          134

```

```

<210> 2464
<211> 76
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(75)
<223> Xaa = any amino acid or nothing

```

```

<400> 2464
Asn Gln Leu Pro Leu Gln Gln Trp Thr Phe Phe Ile Tyr Glu Thr Gly
  1          5          10          15
Phe Cys Ser Val Ala Gln Ala Gly Val Gln Cys Arg Asp His Ser Ser
          20          25          30
Leu His Pro Xaa Pro Pro Gly Ser Ser Asp Pro Pro Ala Pro Pro Ser
          35          40          45
Xaa Val Leu Gly Ile Thr Gly Gln Arg Tyr His Ala Cys Leu Ile Ile
          50          55          60
Tyr Leu Tyr Val Gln Thr Val Pro Gln Arg Val
  65          70          75

```

```

<210> 2465
<211> 144
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(143)
<223> Xaa = any amino acid or nothing

```

```

<400> 2465
Gln Arg Pro Leu Leu Arg Gln Gln Leu Gly Ser Trp Pro Thr Cys Arg
  1          5          10          15
Ser Leu Glu Gly Asp Leu Ala Ser Pro Trp Xaa Xaa Arg Leu Pro Gly
          20          25          30
Ser Pro Arg Met Arg Arg Ser Gly Thr Ala Thr Leu Asn Leu Pro Leu
          35          40          45
Ser Pro Gln Gly Thr Val Arg Thr Ala Val Glu Phe Gln Val Met Thr
          50          55          60
Gln Thr Gln Ser Leu Ser Phe Leu Leu Gly Ser Ser Ala Ser Leu Asp
          55          60          65          70          75          80
Cys Gly Phe Ser Met Ala Pro Gly Leu Asp Leu Ile Ser Val Glu Trp
          85          90          95
Arg Leu Gln His Lys Gly Arg Gly Arg Asp Leu His Leu Pro Asp
          100          105          110

```

```

His His Leu Ser Val Pro Ser Ser Ala Asp His Pro Ala Gln Gln Pro
      115      120      125
Ser Gln Phe Asn Gly Arg Asn Leu Tyr Phe Leu Pro Leu Phe Arg
      130      135      140      143

```

```

<210> 2466
<211> 247
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(246)
<223> Xaa = any amino acid or nothing

```

```

<400> 2466
Ser Ala Ser His Glu Pro Ala Glu His Asp Gly Gly Ala Asp Ser Leu
 1          5          10          15
Ser Ala Ser Gln Pro Pro Arg Pro Ala Gly Arg Pro Ala Gly Ala Gln
      20      25      30
His Val His Val Pro Pro Trp Thr Asp Val Leu Ala Gly Gln Asp Arg
      35      40      45
Arg Ala Pro Thr Ala Gly Asp Gly Ala Pro Trp Pro Ala Pro Gly Gly
      50      55      60
His Val Pro Ser Thr Arg Pro His Asp Pro Ala Glu Phe His Ala Asp
      65      70      75      80
Glu Ala Ala Gly Arg Gly Gly Arg Gly Leu Gln Pro Ala Ala Pro His
      85      90      95
Ala Leu Pro Ala Gly Leu Pro His Gly Pro Pro Ala Pro Ala Pro Ala
      100      105      110
Glu Gly Gly Gly Thr Pro Xaa Gly Ser Ala Gly Ala Gly Gly Pro Xaa
      115      120      125
Gly Ser Pro Ala Gly Arg Ala Cys Gly Ala Ala Gly Cys Arg Pro Arg
      130      135      140
Pro Pro Arg Pro Ala Ala Ser Ser Ala Xaa Asn Ser Ala Gly Ser Xaa
      145      150      155      160
Gly Leu Val Glu Gly Thr Xaa Pro Pro Gly Ala Gly His Gly Ala Pro
      165      170      175
Ser Pro Ala Val Gly Ala Arg Leu Ser Cys Pro Ala Arg Thr Ser Val
      180      185      190
Gln Gly Gly Thr Trp Thr Cys Xaa Ala Pro Ala Gly Arg Pro Ala Gly
      195      200      205
Leu Gly Gly Trp Glu Ala Glu Arg Glu Ser Ala Pro Pro Ser Cys Ser
      210      215      220
Ala Gly Ser Xaa Asp Ala Asp Xaa Gly Ala Glu Pro Trp Gly Ala Gly
      225      230      235      240
Ser Arg Ser Trp Gly Ser
      245 246

```

```

<210> 2467
<211> 188
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(186)
<223> Xaa = any amino acid or nothing

```

```

<400> 2467

```

```

Lys Ser Gly His Trp Ala Lys Glu Cys Leu Gln Pro Arg Ile Pro Pro
 1      5      10      15
Arg Pro Cys Pro Ile Cys Val Gly Pro His Trp Lys Ser Asp Cys Pro
 20      25      30
Thr Cys Pro Gly Ala Val Pro Arg Ala Pro Gly Thr Leu Pro Gln Gly
 35      40      45
Ser Leu Thr Asp Ser Phe Pro Asp Leu Leu Ser Leu Val Ala Glu Asp
 50      55      60
Xaa Cys Cys Leu Met Ala Ser Glu Ala Ser Trp Thr Ile Thr Glu Leu
 65      70      75      80
Trp Val Thr Leu Thr Val Glu Gly Lys Ser Val Pro Cys Leu Asn Thr
 85      90      95
Glu Ala Thr His Ser Thr Leu Pro Ser Phe Gln Gly Pro Val Ser Leu
 100     105     110
Ala Ser Ile Thr Val Val Gly Ile Asp Gly Gln Ala Ser Lys Pro Leu
 115     120     125
Lys Thr Pro Gln Leu Trp Cys Gln Leu Gly Gln Tyr Ser Phe Met His
 130     135     140
Tyr Phe Leu Val Ile Pro Thr Cys Pro Val Pro Leu Leu Gly Xaa Gly
 145     150     155     160
Ile Leu Thr Lys Leu Ser Ala Phe Leu Thr Ile Pro Arg Leu Gln Pro
 165     170     175
His Leu Ile Ala Ala Leu Ser Pro Ser Ser
 180     185 186

```

```

<210> 2468
<211> 157
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(156)
<223> Xaa = any amino acid or nothing

```

```

<400> 2468
Ala Ala Gly Gln Val Val Val Glu Val Thr Ser His Leu Tyr Leu Cys
 1      5      10      15
Ile Thr Ser Asp Ala Ala Gly Leu Arg Leu Leu Pro Pro Ala Glu Ser
 20      25      30
Glu Arg Gly Glu Gly Gly His Cys Pro Ala Glu Ala Pro Leu Pro Pro
 35      40      45
Arg Pro Gln Tyr Cys Leu Ala Lys His Pro Leu Leu Arg Lys Leu Pro
 50      55      60
Glu Glu Lys Ile Lys Leu Asp Pro Tyr Leu Thr Gln His Thr Lys Ile
 65      70      75      80
Asn Ser Lys Gln Ile Lys Tyr Leu Ser Val Arg Ala Lys Thr Thr Gln
 85      90      95
Leu Val Glu Gly Asn Ile Gly Val Asn Leu Gln Asn Thr Glu Leu Lys
 100     105     110
Gln His Xaa Ile Asn Gly Phe Leu Asp Thr Thr Pro Glu Ala Gln Glu
 115     120     125
Thr Lys Glu Lys Thr Asn Lys Leu Asn Phe Ile Lys Lys Val Lys Arg
 130     135     140
Gln Leu Ala Glu Trp Glu Lys Ile Phe Gln Ile Ala
 145     150     155 156

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<210> 2469
<211> 1065
<212> PRT

```

<213> Homo sapiens

<221> misc_feature

<222> (1)...(1060)

<223> Xaa = any amino acid or nothing

<400> 2469

Ala Cys Pro Arg Leu Ala Arg Arg Arg Arg Arg Val Arg Ser Leu Arg
 1 5 10 15
 Arg Arg Arg Gly Trp Leu Arg Ala Arg Trp Ser Arg Gly Gln Asn Asn
 20 25 30
 Met Ala Ala Arg Arg Ile Thr Gln Glu Thr Phe Asp Ala Val Leu Gln
 35 40 45
 Glu Lys Ala Lys Arg Tyr His Met Asp Ala Ser Gly Glu Ala Val Ser
 50 55 60
 Glu Thr Leu Gln Phe Lys Ala Gln Asp Leu Leu Arg Ala Val Pro Arg
 65 70 75 80
 Ser Arg Ala Glu Met Tyr Asp Asp Val His Ser Asp Gly Arg Tyr Ser
 85 90 95
 Leu Ser Gly Ser Val Ala His Ser Arg Asp Ala Gly Arg Glu Ser Leu
 100 105 110
 Arg Ser Asp Val Phe Ser Gly Pro Ser Phe Arg Ser Ser Asn Pro Ser
 115 120 125
 Ile Ser Asp Asp Ser Tyr Phe Arg Lys Glu Cys Gly Arg Asp Leu Glu
 130 135 140
 Phe Ser His Ser Asn Ser Arg Asp Gln Val Ile Gly His Arg Lys Leu
 145 150 155 160
 Gly His Phe Arg Ser Gln Asp Trp Lys Phe Ala Leu Arg Gly Ser Trp
 165 170 175
 Glu Gln Asp Phe Gly His Pro Val Ser Gln Glu Ser Ser Trp Ser Gln
 180 185 190
 Glu Tyr Ser Phe Gly Pro Ser Ala Val Leu Gly Asp Phe Gly Ser Ser
 195 200 205
 Arg Leu Ile Glu Lys Glu Cys Leu Glu Lys Glu Ser Arg Asp Tyr Asp
 210 215 220
 Val Asp His Pro Gly Glu Ala Asp Ser Val Leu Arg Gly Gly Ser Gln
 225 230 235 240
 Val Gln Ala Arg Gly Arg Ala Leu Asn Ile Val Asp Gln Glu Gly Ser
 245 250 255
 Leu Leu Gly Lys Gly Glu Thr Gln Gly Leu Leu Thr Ala Lys Gly Gly
 260 265 270
 Val Gly Lys Leu Val Thr Leu Arg Asn Val Ser Thr Lys Lys Ile Pro
 275 280 285
 Thr Val Asn Arg Ile Thr Pro Lys Thr Gln Gly Thr Asn Gln Ile Gln
 290 295 300
 Lys Asn Thr Pro Ser Pro Asp Val Thr Leu Gly Thr Asn Pro Gly Thr
 305 310 315 320
 Glu Asp Ile Gln Phe Pro Ile Gln Lys Ile Pro Leu Gly Leu Asp Leu
 325 330 335
 Lys Asn Leu Arg Leu Pro Arg Arg Lys Met Ser Phe Asp Ile Ile Asp
 340 345 350
 Lys Ser Asp Val Phe Ser Arg Phe Gly Ile Glu Ile Ile Lys Trp Ala
 355 360 365
 Gly Phe His Thr Ile Lys Asp Asp Ile Lys Phe Ser Gln Leu Phe Gln
 370 375 380
 Thr Leu Phe Glu Leu Glu Thr Glu Thr Cys Ala Lys Met Leu Ala Ser
 385 390 395 400
 Phe Lys Cys Ser Leu Lys Pro Glu His Arg Asp Phe Cys Phe Phe Thr
 405 410 415
 Ile Lys Phe Leu Lys His Ser Ala Leu Lys Thr Pro Arg Val Asp Asn
 420 425 430
 Glu Phe Leu Asn Met Leu Leu Asp Lys Gly Ala Val Lys Thr Lys Asn
 435 440 445

Cys	Phe	Phe	Glu	Ile	Ile	Lys	Pro	Phe	Asp	Lys	Tyr	Ile	Met	Arg	Leu
450						455					460				
Gln	Asp	Arg	Leu	Leu	Lys	Ser	Val	Thr	Pro	Leu	Leu	Met	Ala	Cys	Asn
465					470					475					480
Ala	Tyr	Glu	Leu	Ser	Val	Lys	Met	Lys	Thr	Leu	Ser	Asn	Pro	Leu	Asp
				485					490						495
Leu	Ala	Leu	Ala	Leu	Glu	Thr	Thr	Asn	Ser	Leu	Cys	Arg	Lys	Ser	Leu
			500					505					510		
Ala	Leu	Leu	Gly	Gln	Thr	Phe	Ser	Leu	Ala	Ser	Ser	Phe	Arg	Gln	Glu
	515						520					525			
Lys	Ile	Leu	Xaa	Ala	Val	Gly	Leu	Gln	Asp	Ile	Ala	Pro	Ser	Pro	Ala
530						535					540				
Ala	Phe	Pro	Asn	Phe	Glu	Asp	Ser	Thr	Leu	Phe	Gly	Arg	Glu	Tyr	Ile
545				550						555					560
Asp	His	Leu	Lys	Ala	Trp	Leu	Val	Ser	Ser	Gly	Cys	Pro	Leu	Gln	Val
			565						570						575
Lys	Lys	Ala	Glu	Pro	Glu	Pro	Met	Arg	Glu	Glu	Glu	Lys	Met	Ile	Pro
		580						585					590		
Pro	Thr	Lys	Pro	Glu	Ile	Gln	Ala	Lys	Ala	Pro	Ser	Ser	Leu	Ser	Asp
	595						600						605		
Ala	Val	Pro	Gln	Arg	Ala	Asp	His	Arg	Val	Val	Gly	Thr	Ile	Asp	Gln
610						615					620				
Leu	Val	Lys	Arg	Val	Ile	Glu	Gly	Ser	Leu	Ser	Pro	Lys	Glu	Arg	Thr
625				630						635					640
Leu	Leu	Lys	Glu	Asp	Pro	Ala	Tyr	Trp	Phe	Leu	Ser	Asp	Glu	Asn	Ser
			645						650						655
Leu	Glu	Tyr	Lys	Tyr	Tyr	Lys	Leu	Lys	Leu	Ala	Glu	Met	Gln	Arg	Met
		660						665					670		
Ser	Glu	Asn	Leu	Arg	Gly	Ala	Asp	Gln	Lys	Pro	Thr	Ser	Ala	Asp	Cys
	675					680						685			
Ala	Val	Arg	Ala	Met	Leu	Tyr	Ser	Arg	Ala	Val	Arg	Asn	Leu	Lys	Lys
690						695					700				
Lys	Leu	Leu	Pro	Trp	Gln	Arg	Arg	Gly	Leu	Leu	Arg	Ala	Gln	Gly	Leu
705				710						715					720
Arg	Gly	Trp	Lys	Ala	Arg	Arg	Ala	Thr	Thr	Gly	Thr	Gln	Thr	Leu	Leu
			725						730						735
Phe	Leu	Arg	Ala	Pro	Gly	Leu	Lys	His	His	Gly	Arg	Gln	Ala	Pro	Gly
		740					745						750		
Leu	Ser	Gln	Ala	Lys	Pro	Ser	Leu	Pro	Asp	Arg	Asn	Asp	Ala	Ala	Lys
	755						760					765			
Asp	Cys	Pro	Pro	Asp	Pro	Val	Gly	Pro	Ser	Pro	Gln	Asp	Pro	Ser	Leu
770						775					780				
Glu	Ala	Ser	Gly	Pro	Ser	Pro	Lys	Pro	Ala	Gly	Val	Asp	Ile	Ser	Glu
785				790						795					800
Ala	Pro	Gln	Thr	Ser	Ser	Pro	Cys	Pro	Ser	Ala	Asp	Ile	Asp	Met	Lys
			805						810						815
Thr	Met	Glu	Thr	Ala	Glu	Lys	Leu	Ala	Arg	Phe	Val	Ala	Gln	Val	Gly
		820						825					830		
Pro	Glu	Ile	Glu	Gln	Phe	Ser	Ile	Glu	Asn	Ser	Thr	Asp	Asn	Pro	Asp
	835						840					845			
Leu	Trp	Phe	Leu	His	Asp	Gln	Asn	Ser	Ser	Ala	Phe	Lys	Phe	Tyr	Arg
850						855					860				
Lys	Lys	Val	Phe	Glu	Leu	Cys	Pro	Ser	Ile	Cys	Phe	Thr	Ser	Ser	Pro
865				870						875					880
His	Asn	Leu	His	Thr	Gly	Gly	Gly	Asp	Thr	Thr	Gly	Ser	Gln	Glu	Ser
			885						890						895
Pro	Val	Asp	Leu	Met	Glu	Gly	Glu	Ala	Glu	Phe	Glu	Asp	Glu	Pro	Pro
		900						905					910		
Pro	Arg	Glu	Ala	Glu	Leu	Glu	Ser	Pro	Glu	Val	Met	Pro	Glu	Glu	Glu
	915						920						925		
Asp	Glu	Asp	Asp	Glu	Asp	Gly	Gly	Glu	Glu	Ala	Pro	Ala	Pro	Gly	Gly
930						935					940				
Ala	Gly	Lys	Ser	Glu	Gly	Ser	Thr	Pro	Ala	Asp	Gly	Leu	Pro	Gly	Glu
945					950					955					960


```
<210> 2470
<211> 28
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1) ... (28)
<223> Xaa = any amino acid or nothing
```

```
<210> 2471
<211> 85
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(84)
<223> Xaa = any amino acid or nothing
```

```
<210> 2472
<211> 69
<212> PRT
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<213> Homo sapiens

<400> 2472

```

Met Asn Arg Arg Arg Phe Leu Arg Pro Ala Asp Cys His Ser Gly Met
 1           5           10           15
Arg Gly Thr Glu Asn Gly Ala Cys Ser Glu Gly Glu Ser Gln Ile His
          20           25           30
Cys Gly Ala Gly Gly Glu Gly Val Gln Leu Val His Val Val Asn Gln
          35           40           45
Pro Glu Asn Gly Cys Leu Gln Phe Asp Ser Thr His Ile Thr Phe Ser
          50           55           60
Lys Arg Gln Asn *
65           68

```

<210> 2473

<211> 138

<212> PRT

<213> Homo sapiens

<400> 2473

```

Met Val Asp Arg Ser Pro Leu Leu Thr Ser Val Ile Ile Phe Tyr Leu
 1           5           10           15
Ala Ile Gly Ala Ala Ile Phe Glu Val Leu Glu Glu Pro His Trp Lys
          20           25           30
Glu Ala Lys Lys Asn Tyr Tyr Thr Gln Lys Leu His Leu Leu Lys Glu
          35           40           45
Phe Pro Cys Leu Gly Gln Glu Gly Leu Asp Lys Ile Leu Glu Val Val
          50           55           60
Ser Asp Ala Ala Gly Gln Gly Val Ala Ile Thr Gly Asn Gln Thr Phe
          65           70           75           80
Asn Asn Trp Asn Trp Pro Asn Ala Met Ile Phe Ala Ala Thr Val Ile
          85           90           95
Thr Thr Ile Gly Tyr Gly Asn Val Ala Ser Lys Thr Pro Gly Gly Arg
          100          105          110
Leu Phe Cys Gly Phe Tyr Gly Leu Phe Gly Val Pro Phe Cys Leu Thr
          115          120          125
Trp Ile Asn Ala Leu Gly Lys Phe Phe Gly
130          135          138

```

<210> 2474

<211> 125

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(124)

<223> Xaa = any amino acid or nothing

<400> 2474

```

Gly Pro Ser Pro Ser Leu Leu Val Leu Leu Pro Gln Glu Pro Gly Gly
 1           5           10           15
Thr Gly Thr Pro Val Arg Ala Gly Ala Gly Ala Gly Met Trp Leu Trp
          20           25           30
Glu Asp Gln Gly Gly Leu Leu Gly Pro Phe Ser Phe Leu Met Leu Met
          35           40           45
Leu Leu Leu Glu Thr Arg Asn Pro Val Asn Ala Cys Leu Leu Thr Gly
          50           55           60

```

Ser Leu Phe Val Leu Leu Gly Val Phe Ser Phe Glu Pro Val Pro Ser
 65 70 75 80
 Cys Arg Ala Leu Gln Glu Leu Lys Pro Arg Asp Arg Ile Ser Ala Ile
 85 90 95
 Ala His Arg Gly Gly Arg His Asp Pro Pro Glu Asn Thr Leu Gly Ala
 100 105 110
 Ile Arg Gln Gly Ser Xaa Xaa Trp Ser Asn Arg Arg
 115 120 124

<210> 2475
 <211> 172
 <212> PRT
 <213> Homo sapiens

<400> 2475
 Glu Ser Ser Ser Gly Leu Leu Phe Gln Cys Phe Gln Gly Ile His Val
 1 5 10 15
 Gln Lys Leu Thr Leu Gln Ala Arg Pro Thr Leu Phe Ser Trp Trp Leu
 20 25 30
 Cys Ser Lys Pro Pro Lys Glu Thr Gly Glu Leu Glu Asn Ala Glu Ser
 35 40 45
 Gly Gly Asp Gly Gly Arg Arg Gly Gly Lys Gln Asp Asn Val Ala Trp
 50 55 60
 Trp Arg Arg Met Gln Lys Gly Asp Phe Pro Trp Asp Asp Glu Asp Phe
 65 70 75 80
 Pro Gln Ser Gly Pro Phe Gly Gly Gln Ala Leu Pro Met Gly Phe Phe
 85 90 95
 Tyr Leu Tyr Phe Arg Asp Pro Gly Arg Glu Ile Thr Trp Lys His Phe
 100 105 110
 Val Gln Tyr Tyr Leu Ala Arg Gly Leu Val Asp Arg Leu Glu Val Val
 115 120 125
 Asn Lys Gln Ser Val Arg Val Ile Pro Ala Pro Gly Thr Ser Ser Glu
 130 135 140
 Val Arg Gly Glu Phe Lys Ala Glu Tyr Cys Arg His Lys Phe Ile Ser
 145 150 155 160
 Cys Lys Asn Val Val Phe Tyr Phe Phe Gln
 165 170

<210> 2476
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 2476
 Met Glu Tyr Met Ala Glu Ser Thr Asp Arg Ser Pro Gly His Ile Leu
 1 5 10 15
 Cys Cys Glu Cys Gly Val Pro Ile Ser Pro Asn
 20 25 27

<210> 2477
 <211> 107
 <212> PRT
 <213> Homo sapiens

<400> 2477

```

Leu Thr Gly Gln Leu Gly Ser Ile Leu Leu Arg Val Phe Ser Lys Ser
 1           5           10           15
Arg Ala Gly Leu Gly Ala Arg Lys Leu Lys Ala Tyr Arg Thr Met Glu
           20           25           30
Tyr Met Ala Glu Ser Thr Asp Arg Ser Pro Gly His Ile Leu Cys Cys
           35           40           45
Glu Cys Gly Val Pro Ile Ser Pro Asn Pro Ala Gln Tyr Cys Val Ala
           50           55           60
Cys Leu Arg Ser Ser Phe His Ile Tyr His Cys Ile Pro Lys Leu Phe
65           70           75           80
Ile His Pro Phe Ser Lys Thr Ser Ser Ser Ala Phe Ile Thr Pro Ser
           85           90           95
His Tyr Leu Thr Phe Phe Ser Thr Ile Ser
           100           105 106

```

<210> 2478
 <211> 223
 <212> PRT
 <213> Homo sapiens

```

<400> 2478
Val Leu Lys Phe Leu Leu Leu Gln Thr Met Asp Glu Gln Ser Gln Gly
 1           5           10           15
Met Gln Gly Pro Pro Val Pro Gln Phe Gln Pro Gln Lys Ala Leu Arg
           20           25           30
Pro Asp Met Gly Tyr Asn Thr Leu Ala Asn Phe Arg Ile Glu Lys Lys
           35           40           45
Ile Gly Arg Gly Gln Phe Ser Glu Val Tyr Arg Ala Ala Cys Leu Leu
           50           55           60
Asp Gly Val Pro Val Ala Leu Lys Lys Val Gln Ile Phe Asp Leu Met
65           70           75           80
Asp Ala Lys Ala Arg Ala Asp Cys Ile Lys Glu Ile Asp Leu Leu Lys
           85           90           95
Gln Leu Asn His Pro Asn Val Ile Lys Tyr Tyr Ala Ser Phe Ile Glu
           100           105           110
Asp Asn Glu Leu Asn Ile Val Leu Glu Leu Ala Asp Ala Gly Asp Leu
           115           120           125
Ser Arg Met Ile Lys His Phe Lys Lys Gln Lys Arg Leu Ile Pro Glu
           130           135           140
Arg Thr Val Trp Lys Tyr Phe Val Gln Leu Cys Ser Ala Leu Glu His
145           150           155           160
Met His Ser Arg Arg Val Met His Arg Asp Ile Lys Pro Ala Asn Val
           165           170           175
Phe Ile Thr Ala Thr Gly Val Val Lys Leu Gly Asp Leu Gly Leu Gly
           180           185           190
Arg Phe Phe Ser Ser Lys Thr Thr Ala Ala His Ser Leu Val Gly Thr
           195           200           205
Pro Tyr Tyr Met Ser Pro Glu Arg Ile His Asp Asn Gly
210           215           220 221

```

<210> 2479
 <211> 123
 <212> PRT
 <213> Homo sapiens

```

<400> 2479
Gly Thr Ser Trp Lys Ile Pro Ser Ala Ala Val Ser Glu Ser Ser Pro
 1           5           10           15

```

```

Asn Gly Ala Ala Tyr Ala Ser Gly Leu Pro Cys Gly Val Arg Gly Pro
      20      25      30
Pro Trp Ala Gly Leu Ala Leu Leu Pro Ser Pro Thr Leu Met Ala Leu
      35      40      45
Leu Arg Arg Pro Thr Val Ser Ser Asp Leu Asp Asn Ile Asp Thr Arg
      50      55      60
Ala Thr Thr Lys Ile Arg Val Val Ala Thr Ile Thr Arg Ala Arg Ile
      65      70      75      80
Glu Asp Met Arg His Ser Ala Thr Ala Leu Thr Arg Pro Asp Ala Thr
      85      90      95
Thr Ala Gln Ile Pro Lys Leu Pro Val Thr Thr Val Cys Asn Arg Arg
      100      105      110
Ala Asn Pro Gly Ile Pro Pro Ser Val Leu
      115      120      122

```

<210> 2480
 <211> 119
 <212> PRT
 <213> Homo sapiens

```

<400> 2480
Ala Tyr Leu Lys Arg Leu Pro Val Pro Glu Ser Ile Thr Gly Phe Ala
  1      5      10      15
Arg Leu Thr Val Ser Glu Trp Leu Arg Leu Leu Pro Phe Leu Gly Val
      20      25      30
Leu Ala Leu Leu Gly Tyr Leu Ala Val Arg Pro Phe Leu Pro Lys Lys
      35      40      45
Lys Gln Gln Lys Asp Ser Leu Ile Asn Leu Lys Ile Gln Lys Glu Asn
      50      55      60
Pro Lys Val Val Asn Glu Ile Asn Ile Glu Asp Leu Cys Leu Thr Lys
      65      70      75      80
Ala Ala Tyr Cys Arg Cys Trp Arg Ser Lys Thr Phe Pro Ala Cys Asp
      85      90      95
Gly Ser His Asn Lys His Asn Glu Leu Thr Gly Asp Asn Val Gly Pro
      100      105      110
Leu Ile Leu Lys Lys Lys Glu
      115      119

```

<210> 2481
 <211> 141
 <212> PRT
 <213> Homo sapiens

```

<400> 2481
Lys Glu Leu Val Asp Glu Lys Ser Glu Arg Gly Arg Ala Met Asp Pro
  1      5      10      15
Val Ser Gln Leu Ala Ser Ala Gly Thr Phe Arg Val Leu Lys Glu Pro
      20      25      30
Leu Ala Phe Leu Arg Ala Leu Glu Leu Leu Phe Ala Ile Phe Ala Phe
      35      40      45
Ala Thr Cys Gly Gly Tyr Ser Gly Gly Leu Arg Leu Ser Val Asp Cys
      50      55      60
Val Asn Lys Thr Glu Ser Asn Leu Ser Ile Asp Ile Ala Phe Ala Tyr
      65      70      75      80
Pro Phe Arg Leu His Gln Val Thr Phe Glu Gly Pro Thr Cys Glu Gly
      85      90      95
Lys Glu Arg His Lys Leu Ala Leu Ile Gly Asp Ser Ser Ser Ser Ala
      100      105      110

```

Glu Phe Phe Gly Thr Val Ala Gly Phe Ala Phe Leu Tyr Ser Leu Ala
 115 120 125
 Ala Thr Gly Val Tyr Ile Phe Phe Gln Asn Lys Tyr
 130 135 140

<210> 2482
 <211> 285
 <212> PRT
 <213> Homo sapiens

<400> 2482
 Gly Gly Gly Arg Ala Gly Ala Gly Ser Arg Asp Met Gly Ser Thr Asp
 1 5 10 15
 Ser Lys Leu Asn Phe Arg Lys Ala Val Ile Gln Leu Thr Thr Lys Thr
 20 25 30
 Gln Pro Val Glu Ala Thr Asp Asp Ala Phe Trp Asp Gln Phe Trp Ala
 35 40 45
 Asp Thr Ala Thr Ser Val Gln Asp Val Phe Ala Leu Val Pro Ala Ala
 50 55 60
 Glu Ile Arg Ala Val Arg Glu Glu Ser Pro Ser Asn Leu Ala Thr Leu
 65 70 75 80
 Cys Tyr Lys Ala Val Glu Lys Leu Val Gln Gly Ala Glu Ser Gly Cys
 85 90 95
 His Ser Glu Lys Glu Lys Gln Ile Val Leu Asn Cys Ser Arg Leu Leu
 100 105 110
 Thr Arg Val Leu Pro Tyr Ile Phe Glu Asp Pro Asp Trp Arg Gly Phe
 115 120 125
 Phe Trp Ser Thr Val Pro Gly Ala Gly Arg Gly Gly Gln Gly Glu Glu
 130 135 140
 Asp Asp Glu His Ala Arg Pro Leu Ala Glu Ser Leu Leu Leu Ala Ile
 145 150 155 160
 Ala Asp Leu Leu Phe Cys Pro Asp Phe Thr Val Gln Ser His Arg Arg
 165 170 175
 Ser Thr Val Asp Ser Ala Glu Asp Val His Ser Leu Asp Ser Cys Glu
 180 185 190
 Tyr Ile Trp Glu Ala Gly Val Gly Phe Ala His Ser Pro Gln Pro Asn
 195 200 205
 Tyr Ile His Asp Met Asn Arg Met Glu Leu Leu Lys Leu Leu Thr
 210 215 220
 Cys Phe Ser Glu Ala Met Tyr Leu Pro Pro Ala Pro Glu Ser Trp Gln
 225 230 235 240
 His Arg Thr His Trp Phe Ser Ser Phe Val Ser Ser Glu Asn Arg His
 245 250 255
 Ala Leu Pro Leu Phe Thr Ser Leu Leu Asn Thr Val Cys Ala Tyr Asp
 260 265 270
 Pro Val Glu Tyr Gly Ile Pro Tyr Asn His Leu Tyr
 275 280 284

<210> 2483
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 2483
 Gly Pro Arg Ala Arg Val Gln Gly Phe Ser Gly Ala Asp Ile Val Lys
 1 5 10 15
 Phe Met Ala Leu Gly Ser Met Tyr Leu Val Leu Thr Leu Ile Val Ala
 20 25 30

Lys Val Leu Arg Gly Ala Glu Pro Cys Cys Gly Pro Leu Lys Asn Arg
 35 40 45
 Val Leu Arg Pro Cys Pro Leu Pro Val Pro Leu Pro Pro Pro His Pro
 50 55 60
 Gln Pro Ser Arg Gly Asn Pro Val Gly Cys Leu Pro Thr Tyr Lys Val
 65 70 75 80
 Val Tyr Lys Leu Leu Ser Trp Pro Leu His Ser Asn Ser Asn Val Tyr
 85 90 95
 Phe Ile Val
 99

<210> 2484
 <211> 507
 <212> PRT
 <213> Homo sapiens

<400> 2484
 Met Ala Gly Ala Gly Pro Lys Arg Arg Ala Leu Ser Ala Pro Val Ala
 1 5 10 15
 Glu Glu Lys Glu Glu Ala Arg Glu Lys Ile Met Ala Ala Lys Arg Ala
 20 25 30
 Asp Gly Ala Ala Pro Ala Gly Glu Gly Glu Gly Val Thr Leu Gln Gly
 35 40 45
 Asn Ile Thr Leu Leu Lys Gly Val Ala Val Ile Val Val Ala Ile Met
 50 55 60
 Gly Ser Gly Ile Phe Val Thr Pro Thr Gly Val Leu Lys Glu Ala Gly
 65 70 75 80
 Ser Pro Gly Leu Ala Leu Val Val Trp Ala Ala Cys Gly Val Phe Ser
 85 90 95
 Ile Val Gly Ala Leu Cys Tyr Ala Glu Leu Gly Thr Thr Ile Ser Lys
 100 105 110
 Ser Gly Gly Asp Tyr Ala Tyr Met Leu Asp Val Tyr Gly Ser Leu Pro
 115 120 125
 Ala Phe Leu Lys Leu Trp Ile Glu Leu Leu Ile Ile Arg Pro Ser Ser
 130 135 140
 Gln Tyr Ile Val Ala Leu Val Phe Ala Thr Tyr Leu Leu Lys Pro Leu
 145 150 155 160
 Phe Pro Thr Cys Pro Val Pro Glu Glu Ala Ala Lys Leu Val Ala Cys
 165 170 175
 Leu Cys Val Leu Leu Leu Thr Ala Val Asn Cys Tyr Ser Val Lys Ala
 180 185 190
 Ala Thr Arg Val Gln Asp Ala Phe Ala Ala Ala Lys Leu Leu Ala Leu
 195 200 205
 Ala Leu Ile Ile Leu Leu Gly Phe Val Gln Ile Gly Lys Gly Asp Val
 210 215 220
 Ser Asn Leu Asp Pro Asn Phe Ser Phe Glu Gly Thr Lys Leu Asp Val
 225 230 235 240
 Gly Asn Ile Val Leu Ala Leu Tyr Ser Gly Leu Phe Ala Tyr Gly Gly
 245 250 255
 Trp Asn Tyr Leu Asn Phe Val Thr Glu Glu Met Ile Asn Pro Tyr Arg
 260 265 270
 Asn Leu Pro Leu Ala Ile Ile Ile Ser Leu Pro Ile Val Thr Leu Val
 275 280 285
 Tyr Val Leu Thr Asn Leu Ala Tyr Phe Thr Thr Leu Ser Thr Glu Gln
 290 295 300
 Met Leu Ser Ser Glu Ala Val Ala Val Asp Phe Gly Asn Tyr His Leu
 305 310 315 320
 Gly Val Met Ser Trp Ile Ile Pro Val Phe Val Gly Leu Ser Cys Phe
 325 330 335
 Gly Ser Val Asn Gly Ser Leu Phe Thr Ser Ser Arg Leu Phe Phe Val
 340 345 350

```

Gly Ser Arg Glu Gly His Leu Pro Ser Ile Leu Ser Met Ile His Pro
    355                      360                      365
Gln Leu Leu Thr Pro Val Pro Ser Leu Val Phe Thr Cys Val Met Thr
    370                      375                      380
Leu Phe Tyr Ala Phe Ser Lys Asp Ile Phe Ser Val Ile Asn Phe Phe
385                      390                      395                      400
Ser Phe Phe Asn Trp Leu Cys Val Ala Leu Ala Ile Ile Gly Met Ile
    405                      410                      415
Trp Leu Arg His Arg Lys Pro Glu Leu Glu Arg Pro Ile Lys Val Asn
    420                      425                      430
Leu Ala Leu Pro Val Phe Phe Ile Leu Ala Cys Leu Phe Leu Ile Ala
    435                      440                      445
Val Ser Phe Trp Lys Thr Thr Pro Trp Ser Val Ala Ser Asp Phe Thr
    450                      455                      460
Ile Ile Leu Ser Gly Leu Pro Val Tyr Phe Phe Gly Val Trp Trp Lys
465                      470                      475                      480
Asn Lys Pro Lys Trp Ala Pro Pro Gly His Leu Ser Pro Arg Pro Ser
    485                      490                      495
Cys Val Arg Ser Ser Cys Met Val Val Pro Gln
    500                      505                      507

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<210> 2485
<211> 124
<212> PRT
<213> Homo sapiens

```

```

<400> 2485
Arg Asp Arg Leu Pro Pro Ala Tyr Phe Cys Arg Pro Val Val Cys Val
 1                      5                      10                      15
Val Thr Ala Leu Asp Val Gly Ser Pro Glu Ser Gln Glu Met Asp Leu
    20                      25                      30
Val Ala Phe Glu Asp Val Ala Val Asn Phe Thr Gln Glu Glu Trp Ser
    35                      40                      45
Leu Leu Asp Pro Ser Gln Lys Asn Leu Tyr Arg Glu Val Met Gln Glu
    50                      55                      60
Thr Leu Arg Asn Leu Ala Ser Ile Gly Glu Lys Trp Lys Asp Gln Asn
    65                      70                      75                      80
Ile Glu Asp Gln Tyr Lys Asn Pro Arg Asn Asn Leu Arg Ser Leu Leu
    85                      90                      95
Gly Glu Arg Val Asp Glu Asn Thr Glu Glu Asn His Cys Gly Glu Thr
    100                      105                      110
Ser Ser Gln Ile Pro Asp Asp Thr Leu Asn Lys
    115                      120                      123

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<210> 2486
<211> 327
<212> PRT
<213> Homo sapiens

```

```

<400> 2486
Arg Arg Arg Arg Arg Ser Arg Tyr Arg Arg Cys Ser Arg Phe Pro Arg
 1                      5                      10                      15
Pro Gly Pro Leu Ala Val Ser Met Pro His Ala Phe Lys Pro Gly Asp
    20                      25                      30
Leu Val Phe Ala Lys Met Lys Gly Tyr Pro His Trp Pro Ala Arg Ile
    35                      40                      45
Asp Asp Ile Ala Asp Gly Ala Val Lys Pro Pro Pro Asn Lys Tyr Pro
    50                      55                      60

```



```

Ile Phe Phe Phe Gly Thr His Glu Thr Ala Phe Leu Gly Pro Lys Asp
 65          70          75          80
Leu Phe Pro Tyr Asp Lys Cys Lys Asp Lys Tyr Gly Lys Pro Asn Lys
      85          90          95
Arg Lys Gly Phe Asn Glu Gly Leu Trp Glu Ile Gln Asn Asn Pro His
      100          105          110
Ala Ser Tyr Ser Ala Pro Pro Pro Val Ser Ser Ser Asp Ser Glu Ala
      115          120          125
Pro Glu Ala Asn Pro Ala Asp Gly Ser Asp Ala Asp Glu Asp Asp Glu
      130          135          140
Gly Arg Gly Val Met Ala Val Thr Ala Val Thr Ala Thr Ala Ala Ser
      145          150          155          160
Asp Arg Met Glu Ser Asp Ser Asp Ser Asp Lys Ser Ser Asp Asn Ser
      165          170          175
Gly Leu Lys Arg Lys Thr Pro Ala Leu Lys Met Ser Val Ser Lys Arg
      180          185          190
Ala Arg Lys Ala Ser Ser Asp Leu Asp Gln Ala Ser Val Ser Pro Ser
      195          200          205
Glu Glu Glu Asn Ser Glu Ser Ser Ser Glu Ser Glu Lys Thr Ser Asp
      210          215          220
Gln Asp Phe Thr Pro Glu Lys Lys Ala Ala Val Arg Ala Pro Arg Arg
      225          230          235          240
Gly Pro Leu Gly Gly Arg Lys Lys Lys Ala Pro Ser Ala Ser Asp Ser
      245          250          255
Asp Ser Lys Ala Asp Ser Asp Gly Ala Lys Pro Glu Pro Val Ala Met
      260          265          270
Ala Arg Ser Ala Ser Ser Ser Ser Ser Ser Ser Ser Ser Asp Ser
      275          280          285
Asp Val Ser Val Lys Lys Pro Pro Arg Gly Arg Lys Pro Ala Glu Lys
      290          295          300
Pro Leu Pro Lys Pro Arg Gly Arg Lys Pro Lys Pro Glu Arg Pro Pro
      305          310          315          320
Ser Ser Ser Ser Ser Asp
      325 326

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<210> 2487
 <211> 73
 <212> PRT
 <213> Homo sapiens

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<400> 2487
Leu Phe Pro Arg Leu Glu Cys Arg Asp Pro Val Thr Val Asn Cys Thr
 1          5          10          15
Leu Asn Leu Pro Gly Ser Lys Asn Ala Pro Thr Thr Ala Ser Gln Val
      20          25          30
Gly Ser Thr Trp Asn Tyr Arg Gly Gly Leu Pro His Pro Thr Asn Phe
      35          40          45
Phe Val Lys Thr Gly Phe Arg Cys Ser Gln Ala Gly Leu Lys Leu Arg
      50          55          60
Gly Ser Arg Glu Pro Pro Ala Trp Ala
      65          70          73

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<210> 2488
 <211> 555
 <212> PRT
 <213> Homo sapiens

<400> 2488

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Thr Arg Ser Val Gly Val Asn Thr Cys Glu Val Gly Val Val Thr Glu
1      5      10      15
Pro Glu Cys Leu Gly Pro Cys Glu Pro Gly Thr Ser Val Asn Leu Glu
20      25      30
Gly Ile Val Trp His Glu Thr Glu Glu Gly Val Leu Val Val Asn Val
35      40      45
Thr Trp Arg Asn Lys Thr Tyr Val Gly Thr Leu Leu Asp Cys Thr Lys
50      55      60
His Asp Trp Ala Pro Pro Arg Phe Cys Glu Ser Pro Thr Ser Asp Leu
65      70      75      80
Glu Met Arg Gly Gly Arg Gly Arg Gly Lys Arg Ala Arg Ser Ala Ala
85      90      95
Ala Ala Pro Gly Ser Glu Ala Ser Phe Thr Glu Ser Arg Gly Leu Gln
100      105      110
Asn Lys Asn Arg Gly Gly Ala Asn Gly Lys Gly Arg Arg Gly Ser Leu
115      120      125
Asn Ala Ser Gly Arg Arg Thr Pro Pro Asn Cys Ala Ala Glu Asp Ile
130      135      140
Lys Ala Ser Pro Ser Ser Thr Asn Lys Arg Lys Asn Lys Pro Pro Met
145      150      155      160
Glu Leu Asp Leu Asn Ser Ser Ser Glu Asp Asn Lys Pro Gly Lys Arg
165      170      175
Val Arg Thr Asn Ser Arg Ser Thr Pro Thr Thr Pro Gln Gly Lys Pro
180      185      190
Glu Thr Thr Phe Leu Asp Gln Gly Cys Ser Ser Pro Val Leu Ile Asp
195      200      205
Cys Pro His Pro Asn Cys Asn Lys Lys Tyr Lys His Ile Asn Gly Leu
210      215      220
Arg Tyr His Gln Ala His Ala His Leu Asp Pro Glu Asn Lys Leu Glu
225      230      235      240
Phe Glu Pro Asp Ser Glu Asp Lys Ile Ser Asp Cys Glu Glu Gly Leu
245      250      255
Ser Asn Val Ala Leu Glu Cys Ser Glu Pro Ser Thr Ser Val Ser Ala
260      265      270
Tyr Asp Gln Leu Lys Ala Pro Ala Ser Pro Gly Ala Gly Asn Pro Pro
275      280      285
Gly Thr Pro Lys Gly Lys Arg Glu Leu Met Ser Asn Gly Pro Gly Ser
290      295      300
Ile Ile Gly Ala Lys Ala Gly Lys Asn Ser Gly Lys Lys Lys Gly Leu
305      310      315      320
Asn Asn Glu Leu Asn Asn Leu Pro Val Ile Ser Asn Met Thr Ala Ala
325      330      335
Leu Asp Ser Cys Ser Ala Ala Asp Gly Ser Leu Ala Ala Glu Met Pro
340      345      350
Lys Leu Glu Ala Glu Gly Leu Ile Asp Lys Lys Asn Leu Gly Asp Lys
355      360      365
Glu Lys Gly Lys Lys Ala Asn Asn Cys Lys Thr Asp Lys Asn Pro Ser
370      375      380
Lys Leu Lys Ser Ala Arg Pro Ile Ala Pro Ala Pro Ala Pro Thr Pro
385      390      395      400
Pro Gln Leu Ile Ala Ile Pro Thr Ala Thr Phe Thr Thr Thr Thr Thr
405      410      415
Gly Thr Ile Pro Gly Leu Pro Ser Leu Thr Thr Thr Val Val Gln Ala
420      425      430
Thr Pro Lys Ser Pro Pro Leu Lys Pro Ile Gln Pro Lys Pro Thr Ile
435      440      445
Met Gly Glu Pro Ile Thr Val Asn Pro Ala Leu Val Ser Leu Lys Asp
450      455      460
Lys Lys Lys Lys Glu Lys Arg Lys Leu Lys Asp Lys Glu Gly Lys Glu
465      470      475      480
Thr Gly Ser Pro Lys Met Asp Ala Lys Leu Gly Lys Leu Glu Asp Ser
485      490      495
Lys Gly Ala Ser Lys Asp Leu Pro Gly His Phe Leu Lys Asp His Leu
500      505      510

```

Asn Lys Asn Glu Gly Leu Ala Asn Gly Leu Ser Glu Ser Gln Glu Ser
 515 520 525
 Arg Met Ala Ser Ile Lys Ala Glu Ala Asp Lys Val Tyr Thr Phe Thr
 530 535 540
 Asp Asn Ala Pro Ser Pro Ser Ile Gly Ser
 545 550 554

<210> 2489
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 2489
 Thr Arg Arg Gly Gln Pro Trp Arg Arg Arg Ala Ala Ala Ala Gly Ile
 1 5 10 15
 Leu Pro Gly Arg Glu Ala Ala Ala Cys Leu Pro Ser Cys Ala Ser Val
 20 25 30
 Thr Ala Ala Val Ser Gly Leu Leu Val Gly Tyr Glu Leu Gly Ile Ile
 35 40 45
 Ser Gly Ala Leu Leu Gln Ile Lys Thr Leu Leu Ala Leu Ser Cys His
 50 55 60
 Glu Gln Glu Met Gly Val Ser Ser Leu Val Ile Gly Ala Leu Leu
 65 70 75 79

<210> 2490
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 2490
 Met Ala Gln Gly Asn Asn Tyr Gly Gln Thr Ser Asn Gly Val Ala Asp
 1 5 10 15
 Glu Ser Pro Asn Met Leu Val Tyr Arg Lys Val
 20 25 27

<210> 2491
 <211> 179
 <212> PRT
 <213> Homo sapiens

<400> 2491
 Phe Val Glu Ala Ala Val Lys Met Leu Gly Ser Leu Val Leu Arg Arg
 1 5 10 15
 Lys Ala Leu Ala Pro Arg Leu Leu Leu Arg Leu Leu Arg Ser Pro Thr
 20 25 30
 Leu Arg Gly His Gly Gly Ala Ser Gly Arg Asn Val Thr Thr Gly Ser
 35 40 45
 Leu Gly Glu Pro Gln Trp Leu Arg Val Ala Thr Gly Gly Arg Pro Gly
 50 55 60
 Thr Ser Pro Ala Leu Phe Ser Gly Arg Gly Ala Ala Thr Gly Gly Arg
 65 70 75 80
 Gln Gly Gly Arg Phe Asp Thr Lys Cys Leu Ala Ala Ala Thr Trp Gly
 85 90 95
 Arg Leu Pro Gly Pro Glu Glu Thr Leu Pro Gly Gln Asp Ser Trp Asn
 100 105 110

Gly Val Pro Ser Arg Ala Gly Leu Gly Met Trp Pro Trp Ala Ala Ala
 115 120 125
 Leu Val Val His Cys Tyr Ser Lys Ser Pro Ser Asn Lys Asp Ala Ala
 130 135 140
 Leu Leu Glu Ala Ala Arg Ala Gln Asn Met Gln Glu Val Ser Arg Asn
 145 150 155 160
 Arg Cys Ala Leu Leu His Ser Ala Ala Val Gln Glu Tyr Gly Tyr Gly
 165 170 175
 Asn
 177

<210> 2492
 <211> 104
 <212> PRT
 <213> Homo sapiens

<400> 2492
 His Leu Cys Phe Trp Phe Phe Val Gly Leu Phe Leu Pro Glu Gln Gln
 1 5 10 15
 Ile Met Leu Phe Ala Thr Leu Leu Arg Met Ala Gln Gly Cys Asp Phe
 20 25 30
 Ala Leu Gly Asn Asp Phe Leu Asn Ile Thr Thr Lys Ala Gln Ala Thr
 35 40 45
 Lys Glu Lys Leu Asp Lys Leu Asp Phe Ile Lys Ile Lys Thr Cys Cys
 50 55 60
 Thr Ser Met Asp Ala Ile Glu Lys Thr Glu Pro Leu Thr Lys Trp Thr
 65 70 75 80
 Lys Ala Phe Val Ser His Val Ser Tyr Lys Arg Leu Leu Phe Gly Ile
 85 90 95
 Cys Lys Glu Tyr Ser Arg Gln
 100 103

<210> 2493
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 2493
 Gly Leu Pro Gln Gln Thr Ser Thr Ile Gln Pro Pro Gly Thr Pro Asp
 1 5 10 15
 Gly Ala Arg Asp Phe Thr Ser Thr Ile Gln Pro Pro Gly Ala Pro Asp
 20 25 30
 Gly Ala Arg Asp Ser Thr Ser Ile Ile Arg Met Gly Pro Glu Ile Pro
 35 40 45
 Pro Pro
 50

<210> 2494
 <211> 134
 <212> PRT
 <213> Homo sapiens

<400> 2494
 Lys Lys Val Pro Gly Arg Leu Ser Glu Met Ser Phe Ser Leu Asn Phe
 1 5 10 15

Thr Leu Pro Ala Asn Thr Thr Ser Ser Pro Val Thr Asp Cys Gly Pro
 20 25 30
 Ser Leu Gly Leu Ala Ala Gly Ile Pro Leu Leu Val Ala Thr Ala Leu
 35 40 45
 Leu Val Ala Leu Leu Phe Thr Leu Ile His Arg Arg Arg Ser Ser Ile
 50 55 60
 Glu Ala Met Glu Glu Ser Asp Arg Pro Cys Glu Ile Ser Glu Ile Asp
 65 70 75 80
 Asp Asn Pro Lys Ile Ser Glu Asn Pro Arg Arg Ser Pro Thr His Glu
 85 90 95
 Lys Asn Thr Met Gly Ala Gln Glu Ala His Ile Tyr Val Lys Thr Val
 100 105 110
 Ala Gly Ser Glu Glu Pro Val His Asp Arg Tyr Arg Pro Thr Ile Glu
 115 120 125
 Met Glu Arg Arg Arg
 130 133

<210> 2495
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 2495
 Met Glu Thr Ile Trp Ile Tyr Gln Phe Arg Leu Ile Glu Ile Gly Asp
 1 5 10 15
 Ser Thr Val Gly Lys Ser Cys Leu Leu His Arg Phe Thr Gln Gly Arg
 20 25 30
 Phe Pro Gly Leu Arg Ser Pro Ala Cys Asp Pro Thr Val Gly Val Asp
 35 40 45
 Phe Phe Ser Arg Leu Leu Glu Ile Glu Pro Gly Lys Arg Ile Lys Leu
 50 55 60
 Leu Leu Trp Asp Thr Ala Gly Gln Glu Arg Phe Ile Ser Ile Thr
 65 70 75 79

<210> 2496
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 2496
 Met Phe Thr Tyr Leu Glu Gly Arg Glu Gly Ile Lys Ser Gln Pro Lys
 1 5 10 15
 Met Glu Pro His Ser Val Thr Arg Leu Glu Cys Ser Gly Met Ile Ser
 20 25 30
 Ala His Cys Ser Leu Asn Leu Pro Gly Thr Ser Asp Ser Pro Ala Ser
 35 40 45
 Ala Ser Arg Val Ala Gly Thr Thr Gly Met Arg His His Ala Trp Leu
 50 55 60
 Ile Phe Ala Phe Leu Val Glu Thr Gly Phe
 65 70 74

<210> 2497
 <211> 421
 <212> PRT
 <213> Homo sapiens

<400> 2497

Phe Arg Arg Gly Arg Arg Gly Glu Glu Glu Lys Glu Glu Glu Glu Glu
 1 5 10 15
 Glu Glu Glu Gly Trp Val Asn Gly Met Glu Asn Ser His Pro Pro His
 20 25 30
 His His His Gln Gln Pro Pro Pro Gln Pro Gly Pro Ser Gly Glu Arg
 35 40 45
 Arg Asn His His Trp Arg Ser Tyr Lys Leu Met Ile Asp Pro Ala Leu
 50 55 60
 Lys Lys Gly His His Lys Leu Tyr Arg Tyr Asp Gly Gln His Phe Ser
 65 70 75 80
 Leu Ala Met Ser Ser Asn Arg Pro Val Glu Ile Val Glu Asp Pro Arg
 85 90 95
 Val Val Gly Ile Trp Thr Lys Asn Lys Glu Leu Glu Leu Ser Val Pro
 100 105 110
 Lys Phe Lys Ile Asp Glu Phe Tyr Val Asp Gln Val Pro Pro Lys Gln
 115 120 125
 Val Thr Phe Ala Lys Leu Asn Asp Asn Ile Arg Glu Asn Phe Leu Arg
 130 135 140
 Asp Met Cys Lys Lys Tyr Gly Glu Val Glu Glu Val Glu Ile Leu Tyr
 145 150 155 160
 Asn Pro Lys Thr Lys Lys His Leu Gly Ile Ala Lys Val Val Phe Ala
 165 170 175
 Thr Val Arg Gly Ala Lys Asp Ala Val Gln His Leu His Ser Thr Ser
 180 185 190
 Val Met Gly Asn Ile Ile His Val Glu Leu Asp Thr Lys Gly Glu Thr
 195 200 205
 Arg Met Arg Phe Tyr Glu Leu Leu Val Thr Gly Arg Tyr Thr Pro Gln
 210 215 220
 Thr Leu Pro Val Gly Glu Leu Asp Ala Val Ser Pro Ile Val Asn Glu
 225 230 235 240
 Thr Leu Gln Leu Ser Asp Ala Leu Lys Arg Leu Lys Asp Gly Gly Leu
 245 250 255
 Ser Ala Gly Cys Gly Ser Gly Ser Ser Val Thr Pro Asn Ser Gly
 260 265 270
 Gly Thr Pro Phe Ser Gln Asp Thr Ala Tyr Ser Ser Cys Arg Leu Asp
 275 280 285
 Thr Pro Asn Ser Tyr Gly Gln Gly Thr Pro Leu Thr Pro Arg Leu Gly
 290 295 300
 Thr Pro Phe Ser Gln Asp Ser Ser Tyr Ser Ser Arg Gln Pro Thr Pro
 305 310 315 320
 Ser Tyr Leu Phe Ser Gln Asp Pro Ala Val Thr Phe Lys Ala Arg Arg
 325 330 335
 His Glu Ser Lys Phe Thr Asp Ala Tyr Asn Arg Arg His Glu His His
 340 345 350
 Tyr Val His Asn Ser Pro Ala Val Thr Ala Val Ala Gly Ala Thr Ala
 355 360 365
 Ala Phe Arg Gly Ser Ser Asp Leu Pro Phe Gly Thr Val Gly Gly Thr
 370 375 380
 Gly Gly Ser Ser Gly Pro Pro Phe Lys Ala Gln Pro Gln Asp Ser Ala
 385 390 395 400
 Thr Phe Ala His Thr Pro Pro Pro Ala Gln Ala Thr Pro Ala Pro Gly
 405 410 415
 Phe Arg
 418

<210> 2498

<211> 343

<212> PRT

<213> Homo sapiens

<400> 2498
 Ile Ala Ser Ile Gln Asn Ala Asp Thr Met Pro Gly Val Gly Leu Leu
 1 5 10 15
 Val Ser His Phe Ser Thr Leu Val Ser Arg Gln Arg Cys Pro Asn Tyr
 20 25 30
 Ala Asp Pro Gln Asn Leu Thr Asp Val Ser Ile Phe Leu Leu Glu
 35 40 45
 Val Ser Gly Asp Pro Glu Leu Gln Pro Val Leu Ala Gly Leu Phe Leu
 50 55 60
 Ser Met Cys Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Leu Ala
 65 70 75 80
 Ile Ser Pro Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Phe Ser
 85 90 95
 Asn Leu Ser Leu Pro Asp Val Gly Phe Thr Ser Thr Thr Val Pro Lys
 100 105 110
 Met Ile Val Asp Ile Gln Ser Arg Ser Arg Val Ile Ser Tyr Ala Gly
 115 120 125
 Cys Leu Thr Gln Lys Ser Leu Phe Ala Ile Phe Gly Gly Thr Glu Glu
 130 135 140
 Asn Met Leu Leu Ser Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys
 145 150 155 160
 His Pro Leu Tyr His Ser Ala Ile Met Asn Pro Cys Phe Cys Ala Phe
 165 170 175
 Leu Val Leu Leu Ser Phe Phe Phe Leu Ser Leu Leu Asp Ser Gln Leu
 180 185 190
 His Ser Trp Ile Val Leu Gln Phe Thr Ile Ile Lys Asn Val Glu Ile
 195 200 205
 Ser Asn Phe Val Cys Asp Pro Ser Gln Leu Leu Lys Phe Ala Cys Ser
 210 215 220
 Asp Ser Ile Ile Asn Ser Ile Phe Ile Tyr Phe His Lys Asp Pro Glu
 225 230 235 240
 Arg Gln Leu Val Leu Ala Gly Leu Phe Leu Ser Met Cys Leu Val Thr
 245 250 255
 Val Leu Gly Asn Leu Ile Ile Ile Leu Asp Val Ser Pro Asp Ser His
 260 265 270
 Leu Pro Thr Pro Met Tyr Phe Phe Leu Ser Asn Leu Ser Leu Pro Asp
 275 280 285
 Ile Gly Phe Thr Ser Thr Thr Val Pro Lys Met Ile Val Asp Ile Gln
 290 295 300
 Ser His Gly Arg Val Ile Phe Tyr Ala Gly Cys Leu Thr Gln Met Ser
 305 310 315 320
 Leu Phe Ala Ile Phe Gly Gly Met Glu Glu Arg His Ala Pro Glu Cys
 325 330 335
 Asp Gly Leu
 339

<210> 2499
 <211> 233
 <212> PRT
 <213> Homo sapiens

<400> 2499
 Met Ala Ser Gln Glu Lys Asp Ile Phe Ile Gly Trp Gly Thr Ile His
 1 5 10 15
 Leu Phe Arg Lys Pro Gln Arg Ser Phe Phe Gly Lys Leu Leu Arg Glu
 20 25 30
 Phe Arg Leu Val Ala Ala Asp Arg Ser Met Gly Arg Tyr Met Leu Phe
 35 40 45
 Gly Val Ile Asn Leu Ile Cys Thr Gly Phe Leu Leu Met Trp Cys Ser
 50 55 60

```

Ser Thr Asn Ser Ile Ala Leu Thr Ser Tyr Thr Tyr Leu Thr Ile Phe
 65          70          75          80
Asp Leu Phe Ser Leu Met Thr Cys Leu Ile Ser Tyr Trp Val Thr Leu
          85          90          95
Arg Lys Pro Ser Pro Val Tyr Ser Phe Gly Phe Glu Arg Leu Glu Val
          100          105          110
Leu Ala Val Phe Ala Ser Thr Val Leu Ala Gln Leu Gly Ala Leu Phe
          115          120          125
Ile Leu Lys Glu Ser Ala Glu Arg Phe Leu Glu Gln Pro Glu Ile His
          130          135          140
Thr Gly Arg Leu Leu Val Gly Thr Phe Val Ala Leu Cys Phe Asn Leu
          145          150          155          160
Phe Thr Met Leu Ser Ile Arg Asn Lys Pro Phe Ala Tyr Val Ser Glu
          165          170          175
Ala Ala Ser Thr Ser Trp Leu Gln Glu His Val Ala Asp Leu Ser Arg
          180          185          190
Ser Leu Cys Gly Ile Ile Pro Gly Leu Ser Ser Ile Phe Leu Pro Arg
          195          200          205
Met Asn Pro Phe Val Leu Ile Asp Leu Ala Gly Ala Phe Ala Leu Cys
          210          215          220
Ile Thr Tyr Met Leu Ile Glu Ile
          225          230          232

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<210> 2500
<211> 35
<212> PRT
<213> Homo sapiens

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<400> 2500
Asp Arg Ser Thr Ser Val Thr Arg Ala Gly Val Gln Trp Cys Ser Leu
 1          5          10          15
Gly Ser Leu Gln Pro Arg Thr Pro Gly Leu Leu Arg Ser Ser Cys Leu
          20          25          30
Ser Leu Pro
          35

```

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<210> 2501
<211> 68
<212> PRT
<213> Homo sapiens

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<400> 2501
Val Ala Ile Lys Glu Leu Pro Val Leu Trp Lys Trp Ser Lys Pro Thr
 1          5          10          15
Arg Thr Ala Lys Glu Pro Pro Gln Thr Gln Gln Arg Ala Gly Ser Lys
          20          25          30
Thr Ala Ala Pro Pro Cys Gln Trp Ser Arg Met Ala Ser Glu Gly Pro
          35          40          45
Asn Ile Pro Cys Pro Gly Ala Arg His Ser Asp Lys Gln Phe Leu Ile
          50          55          60
Cys Thr Ile
          65          67

```

```

<210> 2502
<211> 142
<212> PRT

```


<213> Homo sapiens

<400> 2502

```

Lys Pro Ser Pro Leu Ile Thr Pro Pro Ala Val Val Leu Pro Pro Ser
 1          5          10          15
Ala Val Leu Asn Leu Val Asn Thr Phe Ser Ser Phe Pro Gln Val Glu
          20          25          30
Val Gln Gly Pro Leu Cys Gly Pro Arg Lys Gly Arg Leu Ala Val Thr
          35          40          45
Ile Pro Phe Phe Gly Leu Ser Leu Pro Lys Tyr Met Asp His Arg Arg
 50          55          60
Pro Pro Pro His Arg Glu Ile Phe Phe Val Phe Leu Ala Glu Thr Gly
 65          70          75          80
Phe His Arg Ala Ser Gln Ala Gly Pro Asp Leu Pro Thr Ser Ser Ile
          85          90          95
Pro Pro Thr Ser Ala Phe Pro Lys Cys Trp Glu Tyr Arg Ser Glu Pro
          100          105          110
Gln Cys Leu Pro Gly Cys Leu Ser Phe Ser Gly Ile Leu Leu Asp Leu
          115          120          125
Gly Thr Asn Val Ser Leu Arg Ala Ala
 130          135          137

```

<210> 2503

<211> 133

<212> PRT

<213> Homo sapiens

<400> 2503

```

His Pro His Arg Pro Arg Pro Gly Phe Arg Ser Pro Ala Arg Ser Ser
 1          5          10          15
Arg Pro Cys Pro Val Leu Thr Ser Leu Leu Pro Pro Phe Pro Ser Pro
          20          25          30
Ser Pro Pro Ala Asp Asp Leu Val Lys Ala Gly Arg Asp Arg Lys Asp
          35          40          45
Pro Gln Val Arg Glu Arg Arg Leu Arg Pro Asn Pro Gly Arg Leu Gly
 50          55          60
Gly Pro Arg Pro Arg Pro Ala Arg Ala Arg Ser Cys His Gln Pro Arg
 65          70          75          80
Leu Thr Arg Val Cys Pro Arg Ser Pro Pro Glu Ala Arg Ala Pro
          85          90          95
Ala Pro Ala Ala Pro Ala Arg Gly Arg Gly Ala Pro Lys Arg Asn Arg
          100          105          110
Pro Arg Thr Asp Thr Arg Ala Pro Arg Gly Ser Ser Ala Arg Pro Gly
          115          120          125
Asn Ser
 130

```

<210> 2504

<211> 35

<212> PRT

<213> Homo sapiens

<400> 2504

```

Met Pro Cys Ile Gln Ala Gln Tyr Gly Thr Pro Ala Pro Ser Pro Gly
 1          5          10          15
Pro Arg Asp His Ser Ala Ser Asp Pro Leu Thr Pro Glu Phe Ile Lys
          20          25          30

```

Pro Thr
34

<210> 2505
<211> 32
<212> PRT
<213> Homo sapiens

<400> 2505
Met Glu Glu Pro Gln Ser Asp Pro Ser Val Glu Pro Pro Leu Ser Gln
1 5 10 15
Glu Thr Phe Ser Asp Leu Trp Lys Leu Leu Ser Glu Asn Asn Val Leu
20 25 30 32

<210> 2506
<211> 80
<212> PRT
<213> Homo sapiens

<400> 2506
Met Ile Ser Pro Ser Arg Thr Glu Gly Asp Pro Leu Pro Leu Pro Pro
1 5 10 15
Glu Gly Glu Gly Gln Glu Val Arg Gly Phe Gly Gly Gly Pro Ala Lys
20 25 30
Glu Ala Ala Gln Arg His Cys Arg Ala Ser Val Ser Ile Leu Arg Met
35 40 45
Arg Arg Pro Gly Gln Gly Ser Ser Arg Pro Ala Arg Val Pro Leu Arg
50 55 60
Gly Pro Asp Ser His Arg Leu Arg Glu Pro Pro Pro Ser Pro Pro
65 70 75 79

<210> 2507
<211> 47
<212> PRT
<213> Homo sapiens

<400> 2507
Tyr Glu Arg Arg Gly Arg Ser Gln Gly Gly Gly Ser His Pro Ala Gly
1 5 10 15
Ala Gln Pro Gly Gly Arg Ala Ile Gly Ala Gly Trp Gln Ser Lys Glu
20 25 30
Pro Leu Trp Glu Gly Leu Gln Arg Ser Gly Ser Pro Leu Pro Gly
35 40 45 47

<210> 2508
<211> 144
<212> PRT
<213> Homo sapiens

<400> 2508

Gln Glu Leu Lys Gln Gly Pro Asn Pro Leu Ala Pro Ser Pro Ser Ala
 1 5 10 15
 Pro Ser Thr Ser Ala Gly Leu Gly Asp Cys Asn His Arg Val Asp Leu
 20 25 30
 Ser Lys Thr Phe Ser Val Ser Ser Ala Leu Ala Met Leu Gln Glu Arg
 35 40 45
 Arg Cys Leu Tyr Val Val Leu Thr Asp Ser Arg Cys Phe Leu Val Cys
 50 55 60
 Met Cys Phe Leu Thr Phe Ile Gln Ala Leu Met Val Ser Gly Tyr Leu
 65 70 75 80
 Ser Ser Val Ile Thr Thr Ile Glu Arg Arg Tyr Ser Leu Lys Ser Ser
 85 90 95
 Glu Ser Gly Leu Leu Val Ser Cys Phe Asp Ile Gly Asn Leu Val Val
 100 105 110
 Val Val Phe Val Ser Tyr Phe Arg Gly Arg Arg Arg Arg Pro Arg Val
 115 120 125
 Ala Ala Val Gly Gly Leu Leu Asp Leu Glu Gly Gly Glu Met Ile
 130 135 140 143

<210> 2509

<211> 92

<212> PRT

<213> Homo sapiens

<400> 2509

Lys Gly Asn Gln Val Asn Gly Asn Gly Asn Gln Leu Lys Arg Lys His
 1 5 10 15
 Glu Ser Met Cys Pro Val Ser Leu Thr Gln Asn Thr Val Arg Leu Met
 20 25 30
 Glu Ala Gly Leu Pro Gln Lys Gln Ala Glu Arg Ala Asp Glu Leu Phe
 35 40 45
 Glu Ala Gly Leu Val Ile Tyr Val Lys Leu Asp Glu Arg Val Leu Asn
 50 55 60
 Ala Leu Tyr Ser Ser Val Gly Leu Gln Trp Phe Lys Glu Ser Asp Leu
 65 70 75 80
 Ser His Leu Arg Leu Leu Glu Ile Ser Phe Arg
 85 90 91

<210> 2510

<211> 145

<212> PRT

<213> Homo sapiens

<400> 2510

Phe Val Gly Arg Pro Arg Gly Leu Ser Asp Arg Leu Glu Asp Leu Phe
 1 5 10 15
 Leu Ala Gly Phe Arg Val Gly Glu Arg Leu Arg Thr Ala Ala Met Lys
 20 25 30
 Arg Tyr Val Arg Ile Leu Leu Leu Gly Glu Gly Ala Glu His Val Ala
 35 40 45
 Asp Pro Val Pro Gly Gly Arg Gly Val Pro Arg Gly Glu Ala Asp His
 50 55 60
 Thr Asp Gln Glu Leu Arg Glu Glu Ile His Lys Ala Asn Val Glu Arg
 65 70 75 80
 Val Val His Asp Val Ser Gln Glu Ala Thr Ile Glu Lys Ile Arg Thr
 85 90 95
 Lys Trp Ile Pro Leu Val Arg Trp Gly Asp His Ala Glu Gly Pro Val
 100 105 110

Gly Ile Lys Ser Tyr Leu Pro Ser Gly Arg Ser Met Glu Ala Glu Leu
 115 120 125
 Pro Ile Met Ser Gln Leu Thr Glu Ile Glu Thr Cys Val Glu Cys
 130 135 140 143

<210> 2511
 <211> 131
 <212> PRT
 <213> Homo sapiens

<400> 2511
 Asn Ser Arg Val Asp Asp Phe Val Ala Pro Gly Leu Ser Glu Ala Gly
 1 5 10 15
 Lys Leu Leu Gly Leu Glu Phe Pro Glu Arg Gln Arg Leu Ala Ala Ala
 20 25 30
 Val Gly Cys Ser Pro Met Ser Gly Val Ile Ser Met Ser Ala Pro Phe
 35 40 45
 Phe Leu Gly Lys Ile Ile Asp Ala Ile Tyr Thr Asn Pro Thr Val Asp
 50 55 60
 Tyr Ser Asp Asn Leu Thr Arg Leu Cys Leu Gly Leu Ser Gly Val Phe
 65 70 75 80
 Leu Cys Gly Ala Ala Ala Asn Ala Ile Arg Val Tyr Leu Met Gln Thr
 85 90 95
 Ser Arg Gln Arg Val Val Lys Arg Leu Arg Thr Ser Leu Phe Ser Ser
 100 105 110
 Ile Leu Gly Gln Glu Val Ala Phe Ser Asp Lys Ala Gly Thr Gly Glu
 115 120 125
 Leu Ile
 130

<210> 2512
 <211> 252
 <212> PRT
 <213> Homo sapiens

<400> 2512
 Gln Gly Arg Phe Arg Ala Phe Cys Trp Gln Arg Asp Phe Leu Gln Pro
 1 5 10 15
 Pro Gly Met Arg Leu Ser Ala Leu Leu Ala Leu Ala Ser Lys Val Thr
 20 25 30
 Leu Pro Pro His Tyr Arg Tyr Gly Met Ser Pro Pro Gly Ser Val Ala
 35 40 45
 Asp Lys Arg Lys Asn Pro Pro Trp Ile Arg Arg Arg Pro Val Val Val
 50 55 60
 Glu Pro Ile Ser Asp Glu Asp Trp Tyr Leu Phe Cys Gly Asp Thr Val
 65 70 75 80
 Glu Ile Leu Glu Gly Lys Asp Ala Gly Lys Gln Gly Lys Val Val Gln
 85 90 95
 Val Ile Arg Gln Arg Asn Trp Val Val Val Gly Gly Leu Asn Thr His
 100 105 110
 Tyr Arg Tyr Ile Gly Lys Thr Met Asp Tyr Arg Gly Thr Met Ile Pro
 115 120 125
 Ser Glu Ala Pro Leu Leu His Arg Gln Val Lys Leu Val Asp Pro Met
 130 135 140
 Asp Arg Lys Pro Thr Glu Ile Glu Trp Arg Phe Thr Glu Ala Gly Glu
 145 150 155 160
 Arg Val Arg Val Ser Thr Arg Ser Gly Arg Ile Ile Pro Lys Pro Glu
 165 170 175

```

Phe Pro Arg Ala Asp Gly Ile Val Pro Glu Thr Trp Ile Asp Gly Pro
      180      185      190
Lys Asp Thr Ser Val Glu Asp Ala Leu Glu Arg Thr Tyr Val Pro Cys
      195      200      205
Leu Lys Thr Leu Gln Glu Glu Val Met Glu Ala Met Gly Ile Lys Glu
      210      215      220
Thr Arg Asn Thr Arg Arg Ser Ile Gly Ile Glu Pro Gly Ala Glu Gln
      225      230      235      240
Leu Leu Pro Asn Phe Cys Pro Ser Leu Glu Gly
      245      250 251

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<210> 2513
<211> 119
<212> PRT
<213> Homo sapiens

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<400> 2513
Asp Ser Leu Ala Leu Ser Pro Arg Leu Glu Cys Ser Gly Ala Ile Ser
 1      5      10      15
Ala His Cys Asn Leu Thr Pro Pro Gly Phe Thr Pro Phe Ser Cys Leu
      20      25      30
Ser Leu Pro Ser Ser Trp Ala Tyr Arg Cys Ala Ser Pro His Pro Asp
      35      40      45
Asn Phe Phe Val Phe Leu Val Glu Ser Gly Phe His His Val Gly Gln
      50      55      60
Ala Gly Leu Lys Leu Leu Ile Ser Ser Asp Pro Pro Thr Ser Ala Phe
      65      70      75      80
Pro Lys Cys Trp Asp Tyr Arg Arg Asp Ser Ser Ala Pro Ala Thr Phe
      85      90      95
Ser Ser Tyr Gln Arg Asn Asn Pro Asp Leu Ile Leu Asn Asp Thr Ile
      100      105      110
Met Pro Asn Ile Lys
      115      117

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<210> 2514
<211> 366
<212> PRT
<213> Homo sapiens

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<400> 2514
Ser Ser Phe Pro Thr Cys Met Arg Thr Val Phe His Ser Asn Thr Ser
 1      5      10      15
Val Ser Ser Leu Leu His Arg Pro Gly His Val Thr Pro Gln Leu Thr
      20      25      30
Ile His Gly Gly Trp Arg His His Arg Asp His Thr Ala Ile Asp Glu
      35      40      45
Trp Asp Phe Asn Pro Ser Lys Phe Leu Ile Tyr Thr Cys Leu Leu Leu
      50      55      60
Phe Ser Val Leu Leu Pro Leu Arg Leu Asp Gly Ile Ile Gln Trp Ser
      65      70      75      80
Tyr Trp Ala Val Phe Ala Pro Ile Trp Leu Trp Lys Leu Leu Val Val
      85      90      95
Ala Gly Ala Ser Val Gly Ala Gly Val Trp Ala Arg Asn Pro Arg Tyr
      100      105      110
Arg Thr Glu Gly Glu Ala Cys Val Glu Phe Lys Ala Met Leu Ile Ala
      115      120      125
Val Gly Ile His Leu Leu Leu Leu Met Phe Glu Val Leu Val Cys Asp
      130      135      140

```

Arg Val Glu Arg Gly Thr His Phe Trp Leu Leu Val Phe Met Pro Leu
 145 150 155 160
 Phe Phe Val Ser Pro Val Ser Val Ala Ala Cys Val Trp Gly Phe Arg
 165 170 175
 His Asp Arg Ser Leu Glu Leu Glu Ile Leu Cys Ser Val Asn Ile Leu
 180 185 190
 Gln Phe Ile Phe Ile Ala Leu Lys Leu Asp Arg Ile Ile His Trp Pro
 195 200 205
 Trp Leu Val Val Phe Val Pro Leu Trp Ile Leu Met Ser Phe Leu Cys
 210 215 220
 Leu Val Val Leu Tyr Tyr Ile Val Trp Ser Leu Leu Phe Leu Arg Ser
 225 230 235 240
 Leu Asp Val Val Ala Glu Gln Arg Arg Thr His Val Thr Met Ala Ile
 245 250 255
 Ser Trp Ile Thr Ile Val Val Pro Leu Leu Thr Phe Glu Val Leu Leu
 260 265 270
 Val His Arg Leu Asp Gly His Asn Thr Phe Ser Tyr Val Ser Ile Phe
 275 280 285
 Val Pro Leu Trp Leu Ser Leu Leu Thr Leu Met Ala Thr Thr Phe Arg
 290 295 300
 Arg Lys Gly Gly Asn His Trp Trp Phe Ala Ile Arg Arg Asp Phe Cys
 305 310 315 320
 Gln Asp Gln Leu Pro Gln Pro Thr Gly Lys Pro Pro Pro Pro Pro Leu
 325 330 335
 Thr Asp His His Gly Glu Lys Ala Leu Pro Leu Gln Asn Lys Asp Arg
 340 345 350
 Gly Ser Trp Pro Ala Ser Arg Gly Ser Pro Arg Leu Leu
 355 360 365

<210> 2515
 <211> 148
 <212> PRT
 <213> Homo sapiens

<400> 2515
 Asp Val Ser Ile Gly Pro Pro Leu Leu Arg Arg Pro Cys Ser Gly Arg
 1 5 10 15
 Glu Gln Thr Arg Ser Leu Ser Phe Pro Ser Asp Pro Glu Ser Ser Phe
 20 25 30
 Ser Pro Val Pro Glu Gly Val Arg Leu Ala Asp Gly Pro Gly His Cys
 35 40 45
 Lys Gly Arg Val Glu Val Lys His Gln Asn Gln Trp Tyr Thr Val Cys
 50 55 60
 Gln Thr Gly Trp Ser Leu Arg Ala Ala Lys Val Val Cys Arg Gln Leu
 65 70 75 80
 Arg Cys Gly Arg Ala Val Leu Thr Gln Lys Arg Cys Thr Lys His Ala
 85 90 95
 Tyr Gly Arg Lys Pro Ile Trp Leu Ser Gln Met Ala Cys Ser Gly Pro
 100 105 110
 Glu Pro Thr Leu His Asp Cys Pro Phe Arg Pro Leu Gly Glu Asp Thr
 115 120 125
 Leu Phe His Val Glu Tyr Thr Ser Val His Gly Arg Glu Arg Leu Ser
 130 135 140
 Ala Lys Asp
 145 147

<210> 2516
 <211> 63
 <212> PRT

<213> Homo sapiens

<400> 2516

```

Pro Pro Ile Leu Arg Trp Thr Pro Pro Ser Gly Lys Asn Phe Phe Phe
 1          5          10          15
Phe Phe Phe Phe Glu Ser Glu Phe Tyr Ser Ser Pro Arg Val Glu Cys
          20          25          30
Ser Gly Ala Ile Ser Ala His Leu Ala His Cys Asn Leu Cys Leu Pro
          35          40          45
Gly Ser Ser Asp Ser Pro Ala Ser Ala Phe Gln Val Ala Ser
 50          55          60          62

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<210> 2517

<211> 131

<212> PRT

<213> Homo sapiens

<400> 2517

```

Ala Val Leu Thr Pro Cys Leu Ser Pro Cys Ser Pro Ser Arg Ile Pro
 1          5          10          15
Arg Pro Ser Arg Pro Tyr Pro Gly Arg Arg Ser Leu Ser His Thr Pro
          20          25          30
Pro Pro Arg Pro Leu Ile Leu Tyr Ala Pro Ala Pro Arg Pro Ala Gly
          35          40          45
Thr Ala Phe Ile Pro His Ser His Pro Pro Pro Pro Asp Leu Leu Arg
 50          55          60
Pro Thr Ala Thr Pro Ala Thr Pro Cys Pro Ser Leu Pro Pro Pro Pro
 65          70          75          80
Arg Pro Leu His Pro Thr Gln Pro Ser Thr Ala Leu Leu Pro Asp Pro
          85          90          95
Pro Pro Trp Pro Leu Pro Phe Pro Pro Pro Ser Ser Arg Pro Pro Arg
          100          105          110
Pro Asp Cys Ser Thr Ser Tyr Ser Pro Thr Phe Pro Pro Pro Thr
          115          120          125          127

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<210> 2518

<211> 168

<212> PRT

<213> Homo sapiens

<400> 2518

```

Met Met Leu Ser Glu Glu Thr Ser Ala Val Arg Pro Gln Lys Gln Thr
 1          5          10          15
Arg Phe Asn Gly Ala Lys Leu Val Trp Met Leu Lys Gly Ser Pro Ile
          20          25          30
Thr Val Thr Ser Ala Val Ile Ile Val Leu Met Leu Leu Met Met Ile
          35          40          45
Phe Ser Pro Trp Leu Ala Thr His Asp Pro Asn Ala Ile Asp Leu Thr
 50          55          60
Ala Arg Leu Leu Pro Pro Ser Ala Ala His Trp Phe Gly Thr Asp Glu
 65          70          75          80
Val Gly Arg Asp Leu Phe Ser Arg Val Leu Val Gly Ser Gln Gln Ser
          85          90          95
Ile Leu Ala Gly Leu Val Val Val Ala Thr Thr Gly Met Ile Gly Ser
          100          105          110
Pro Leu Glu Cys Leu Phe Gly Glu Leu Gly Gly Arg Ala Asp Ala Ile
          115          120          125

```

Phe Met Arg Val Met Asp Ile Met Arg Ser Ile Pro Ser Leu Val Leu
 130 135 140
 Thr Met Glu Lys Thr Ala Ala Leu Gly Pro Ser Leu Phe Asn Ala Met
 145 150 155 160
 Gln Ala Ser Ser Glu His
 165 166

<210> 2519
 <211> 123
 <212> PRT
 <213> Homo sapiens

<400> 2519
 Gly Asn Gly Arg Val Ala Pro Arg Asp Pro Gly Ala Val Ala Ser Ala
 1 5 10 15
 Glu Pro Gly Leu Thr Thr His Asp Ser Gly Val Asn Pro Asn Asn Ser
 20 25 30
 Ala Arg Arg Met Glu Ala Met Ala Ser Gly Ser Asn Trp Leu Ser Gly
 35 40 45
 Val Asn Val Val Leu Val Met Ala Tyr Trp Ser Leu Val Phe Val Leu
 50 55 60
 Leu Phe Ile Phe Ala Lys Arg Gln Ile Met Arg Phe Ala Met Lys Ser
 65 70 75 80
 Leu Arg Gly Pro His Gly Pro Val Gly His Asn Ala Pro Lys Asp Leu
 85 90 95
 Lys Glu Glu Ile Asp Ile Leu Leu Ser Arg Val His Asn Ile Lys Tyr
 100 105 110
 Glu Pro His Leu Leu Ala Asp Asp Ala
 115 120 122

<210> 2520
 <211> 336
 <212> PRT
 <213> Homo sapiens

<400> 2520
 Gly Val Ser Gly Phe Ser Ala Ser Val Leu Arg Gln Arg Arg Met Glu
 1 5 10 15
 Asp Glu Leu Glu Pro Ser Leu Arg Pro Arg Thr Gln Ile Gln Gly Arg
 20 25 30
 Ile Leu Leu Leu Thr Ile Cys Ala Ala Gly Ile Gly Gly Thr Phe Gln
 35 40 45
 Phe Gly Tyr Asn Leu Ser Ile Ile Asn Ala Pro Thr Leu His Ile Gln
 50 55 60
 Glu Phe Thr Asn Glu Thr Trp Gln Ala Arg Thr Gly Glu Pro Leu Pro
 65 70 75 80
 Asp His Leu Val Leu Leu Met Trp Ser Leu Ile Val Ser Leu Tyr Pro
 85 90 95
 Leu Gly Gly Leu Phe Gly Ala Leu Leu Ala Gly Pro Leu Ala Ile Thr
 100 105 110
 Leu Gly Arg Lys Lys Ser Leu Leu Val Asn Asn Ile Phe Val Val Ser
 115 120 125
 Ala Ala Ile Leu Phe Gly Phe Ser Arg Lys Ala Gly Ser Phe Glu Met
 130 135 140
 Ile Met Leu Gly Arg Leu Ala Ser Trp Gly Val Asn Ala Gly Val Ser
 145 150 155 160
 Met Asn Ile Gln Pro Met Leu Pro Gly Gly Glu Ser Ala Pro Lys Glu
 165 170 175

Leu Arg Gly Ala Val Ala Met Ser Ser Ala Ile Phe Thr Ala Leu Gly
 180 185 190
 Ile Val Met Gly Gln Val Val Gly Leu Ser Thr Thr Ala Ala Thr Gly
 195 200 205
 Leu Arg Gly Leu Ala Gly Glu Leu Glu Glu Leu Glu Glu Arg Ala
 210 215 220
 Ala Cys Gln Gly Cys Arg Ala Arg Arg Pro Trp Glu Leu Phe Gln His
 225 230 235 240
 Arg Ala Leu Arg Arg Gln Val Thr Ser Leu Val Val Leu Gly Ser Ala
 245 250 255
 Met Glu Leu Cys Gly Asn Asp Ser Val Tyr Ala Tyr Ala Ser Ser Val
 260 265 270
 Phe Arg Lys Ala Gly Val Pro Glu Ala Lys Ile Gln Tyr Ala Ile Ile
 275 280 285
 Gly Thr Gly Ser Cys Glu Leu Leu Thr Ala Val Val Ser Val Ser Leu
 290 295 300
 Glu Gly Ala Leu Pro Pro Ala Leu Trp Gly Gly Thr Pro Arg Ser
 305 310 315 320
 Phe Ala Leu Asn Gln Phe Thr Leu Gln Lys Lys Lys Lys
 325 330 333

<210> 2521
 <211> 138
 <212> PRT
 <213> Homo sapiens

<400> 2521
 Arg Gly Pro Ala Ser Ala Gln Glu Asp Glu Arg Ala Arg Thr Ala Pro
 1 5 10 15
 Leu Glu Arg Val Arg Ala Arg Gly Arg Met Thr Thr Ser Ser Ala Leu
 20 25 30
 Phe Pro Ser Leu Leu Pro Cys Ser Trp Ser Thr Ser Asn Lys Tyr Leu
 35 40 45
 Ala Glu Phe Arg Ala Gly Lys Met Ser Leu Lys Gly Thr Thr Glu Thr
 50 55 60
 Pro Asp Lys Arg Lys Gly Leu Ala Tyr Ile Gln Gln Thr Asp Asp Ser
 65 70 75 80
 Leu Ile His Phe Cys Trp Lys Asp Arg Thr Ser Gly Asn Val Glu Asp
 85 90 95
 Asp Leu Ile Ile Phe Pro Asp Asp Cys Glu Phe Lys Arg Leu Pro Gln
 100 105 110
 Cys Pro Asn Gly Arg Val Tyr Val Leu Lys Phe Lys Ala Gly Ser Lys
 115 120 125
 Arg Leu Phe Phe Trp Met Gln Glu Pro
 130 135 137

<210> 2522
 <211> 112
 <212> PRT
 <213> Homo sapiens

<400> 2522
 Gly Trp Asn Gly Arg Ser Thr Glu Ala Ser Pro Ala Ala Glu Ala Pro
 1 5 10 15
 His Val Pro His Lys Glu Thr Lys Ala Ala Met Gly Thr Gln Cys Thr
 20 25 30
 His Gly Gly Lys Val Arg Pro Asp Pro His Asp Met Leu Thr Thr Val
 35 40 45

```

Val His Lys Ile Lys Leu Phe Val Leu Cys His Ser Leu Leu Gln Leu
  50                      55                      60
Cys Ala Ile Met Ile Ser Asp Tyr Leu Lys Ser Ser Ile Tyr Thr Val
  65                      70                      75                      80
Glu Lys Arg Leu Gly Leu Phe Arg Pro Thr Ser Gly Leu Leu Ala Ser
                      85                      90                      95
Phe Asn Glu Val Gly Asn Thr Ala Leu Ile Val Leu Glu Ser Tyr
                      100                      105                      110 111

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<210> 2523
<211> 114
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(114)
<223> Xaa = any amino acid or nothing

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```

<400> 2523
Leu Cys Gln Cys Ile Val Pro Gly Gln Gln Lys Glu Thr Phe Ser Leu
  1                      5                      10                      15
Asn Pro Ser Ser Ala Thr Val Arg Phe Tyr Leu Xaa Leu Ser Leu Gln
                      20                      25                      30
Gln Arg Lys Glu Asp Gln Xaa Ile Ile Leu Xaa Tyr His Leu Asn Lys
                      35                      40                      45
Asp Cys Leu His Ile Phe Met Ser Ala Ile Thr Leu Tyr Met Lys Ile
                      50                      55                      60
Xaa Lys Ile Phe Val Leu Phe Asp Phe Asn Ile Met Phe Glu Thr Pro
                      65                      70                      75                      80
Phe Tyr Ile Ile Xaa Phe Ile Phe Leu Phe Ser Gln Asn Leu Lys Arg
                      85                      90                      95
Ile Arg Gln Val Ile Arg Pro Pro Ile Ser Phe Ser Lys Ile Asn Asn
                      100                      105                      110
Gly Pro
114

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<210> 2524
<211> 99
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(99)
<223> Xaa = any amino acid or nothing

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```

<400> 2524
Glu Arg Leu Glu Ile Gly Arg Leu Gly Gly Glu Arg Gly Ser Gly Pro
  1                      5                      10                      15
Ala Ser Cys Leu Arg Val Ile Asp Val Ser Gly Met Trp Asp Gln Arg
                      20                      25                      30
Leu Val Lys Leu Ala Leu Leu Gln Leu Leu Arg Ala Phe Tyr Gly Ile
                      35                      40                      45
Lys Val Lys Gly Val Arg Val His Arg Asp Cys Gly Thr Phe Glu Ser
                      50                      55                      60
Ser Ser Thr Leu Ile Arg Val Ser Xaa Phe Gly Val Pro Cys Asn Ala
                      65                      70                      75                      80
Leu Ala His Phe Gly Val Thr His Phe Xaa Tyr Ile Leu Asp Phe Leu
                      85                      90                      95

```

Gly Met Leu
99

<210> 2525
<211> 110
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(110)
<223> Xaa = any amino acid or nothing

<400> 2525
His Glu Ser Ser Arg Ala Asp Arg Asp Lys Met Asp Thr Arg Gly Ser
1 5 10 15
Thr Tyr Thr Asp Ala Asp Pro Val Asn Lys Ser Gly Gly Thr Ala Lys
20 25 30
Met Asn Lys Trp Ser Lys Gly Lys Val Arg Asp Lys Leu Asn Asn Leu
35 40 45
Val Leu Phe Asp Thr Ala Thr Tyr Asp Lys Leu Cys Lys Glu Val Pro
50 55 60
Asn Tyr Lys Leu Ile Thr Leu Ala Val Val Ser Glu Arg Leu Lys Ile
65 70 75 80
Pro Gly Ser Leu Ala Arg Ala Ala Leu His Glu Leu Leu Ser Arg Gly
85 90 95
Leu Ile Xaa Leu Val Ile Gln His Ile Ala Gln Val Ile Tyr
100 105 110

<210> 2526
<211> 99
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(99)
<223> Xaa = any amino acid or nothing

<400> 2526
Leu Asp Leu Thr His Val Leu Ser Leu Ser Ile Ser Leu Thr Val Thr
1 5 10 15
Ile Leu Gly Thr Thr Phe Gly Met Val Ile Pro Leu Leu Asp Val Val
20 25 30
Tyr Gly Glu Arg Gly Tyr Ala Gln Asn Gly Asp Phe Xaa Asp Ala Gln
35 40 45
Leu Asp Asp Tyr Ser Phe Ser Cys Tyr Ser His Ala Gln Val Asn Gly
50 55 60
Ala Pro Asn Ser Leu Thr Arg Ala Tyr Asp Asp Pro Xaa Val Lys Ile
65 70 75 80
Ser Gly Leu Glu Cys Gln Lys Val Gly Ala Leu Val Glu Val Lys Cys
85 90 95
Leu Asn Leu
99

<210> 2527
<211> 133
<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(133)

<223> Xaa = any amino acid or nothing

<400> 2527

```

Cys Asn Phe Leu Arg Ser Ser Arg Ile Arg Val His Ser Thr Pro Ala
 1          5          10          15
Ala Ser Thr Met Pro Pro Lys Val Asp Pro Asn Glu Ile Lys Val Val
          20          25          30
Tyr Leu Arg Cys Thr Gly Gly Glu Val Arg Ala Thr Ser Ala Leu Ala
          35          40          45
Pro Lys Ile Gly Pro Leu Gly Leu Ser Ser Ile Lys Val Gly Val Asp
          50          55          60
Phe Val Xaa Ala Thr Gly Asp Trp Asn Val Leu Ile Ile Ser Val Ile
          65          70          75          80
Leu Thr Ile Arg Ile Leu Leu Ser His Ile Phe Val Val Pro Pro Phe
          85          90          95
Phe Cys Phe Asp His Leu Ile Ala Phe Trp Asp Leu Gln Ser Leu Ile
          100          105          110
Phe Leu His Val Ile Phe Ser Leu Phe Ile Thr Leu Leu Leu Phe Cys
          115          120          125
Phe Phe Ser Ile Phe
          130          133

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<210> 2528

<211> 95

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(95)

<223> Xaa = any amino acid or nothing

<400> 2528

```

Thr Pro Leu Phe Asp Leu Trp Pro Arg Val Val Leu Ser Trp Leu Glu
 1          5          10          15
Thr Val Leu Thr Ser Leu Arg Thr Arg Arg Ala Ala Ser Gly Pro Pro
          20          25          30
Ala Cys Arg Ile Met Pro Thr Thr Val Asp Asp Val Leu Glu His Gly
          35          40          45
Gly Glu Val His Phe Leu Gln Lys Gln Met Leu Tyr Leu Leu Ala Leu
          50          55          60
Ile Xaa Asp Thr Phe Ala Pro Ile Tyr Val Gly Ile Val Phe Leu Gly
          65          70          75          80
Phe Thr Pro Asp His Arg Cys Arg Ser Pro Gly Val Ala Glu Leu
          85          90          95

```

<210> 2529

<211> 68

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(68)

<223> Xaa = any amino acid or nothing

<400> 2529
 Leu Ser Ser Ala Gly Thr Lys Met Asn Leu Asn Xaa Lys Asn Tyr Trp
 1 5 10 15
 Pro Gly Ala Ser Ala His Ala Cys Asn Pro Ser Thr Leu Gly Gly Gln
 20 25 30
 Ser Arg Cys Ile Thr Arg Ser Gly Asp Arg Asp His Pro Gly Xaa His
 35 40 45
 Gly Glu Thr Pro Ser Val Leu Lys Ile Gln Lys Ile Ser Arg Ala Trp
 50 55 60
 Trp Arg Ala Pro
 65 68

<210> 2530
 <211> 66
 <212> PRT
 <213> Homo sapiens
 <221> misc_feature
 <222> (1)...(66)
 <223> Xaa = any amino acid or nothing

<400> 2530
 His Arg Pro Gln Thr Thr Arg Pro Asp Trp Lys Pro Arg Thr Xaa Pro
 1 5 10 15
 Gln Gly Lys Xaa Gly Arg Leu Ser Ser Glu Ile Ser Pro Ala Ser Pro
 20 25 30
 Pro Ser Arg Phe Ser Arg Ser Thr Lys Pro Val Pro Pro Lys Ala Asp
 35 40 45
 Pro Pro Ala Arg Gln Lys Leu Thr Gly Val Leu His Ala Pro Leu Leu
 50 55 60
 Lys Leu
 65 66

<210> 2531
 <211> 90
 <212> PRT
 <213> Homo sapiens
 <221> misc_feature
 <222> (1)...(90)
 <223> Xaa = any amino acid or nothing

<400> 2531
 Pro Ile Ala Ala Ser Leu Arg Met Tyr Asn Leu Gln Pro Tyr Thr Glu
 1 5 10 15
 Glu Asn Leu Ile Cys Thr Ala Phe Ala Thr Met Val Glu Thr Val Pro
 20 25 30
 Ile Ala Arg Thr Ile Leu Asp Arg Leu Thr Gly Ile Pro His Gly Tyr
 35 40 45
 Cys Phe Val Glu Xaa Ala Asp Trp Ala Thr Ala Asp Lys Cys Val His
 50 55 60
 Ile Tyr Asn Gly Lys Pro Leu Pro Gly Ala Thr Pro Leu Leu Ser Leu
 65 70 75 80
 Gln Leu His Gln Leu Ala His Leu Gly Ser
 85 90

<210> 2532
 <211> 78
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(78)
 <223> Xaa = any amino acid or nothing

<400> 2532
 Val Asp Lys Cys Ser Ser Lys Ser Ile Val Leu Ser Glu Tyr Cys Pro
 1 5 10 15
 His Cys Met Cys Ser Leu Ser Thr Asp Pro Lys Pro Phe Gly Gln Leu
 20 25 30
 Ser Met Ile Leu Lys Xaa Met Gly Ala Gly Asp Glu Lys Ile Ser Ala
 35 40 45
 Met Gly Lys Ala Arg Val Asp His Arg Glu Leu Tyr Leu Gly Leu Leu
 50 55 60
 Tyr Pro Thr Glu Asp Tyr Lys Leu Thr Phe Arg Ala Arg His
 65 70 75 78

<210> 2533
 <211> 126
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(126)
 <223> Xaa = any amino acid or nothing

<400> 2533
 Leu Lys Asp Phe Gln Pro Trp Ala Leu His Asp Trp Pro Leu Phe Cys
 1 5 10 15
 Cys Cys Thr Phe Leu Leu Phe Leu Val Leu Glu Cys Phe Thr Arg Lys
 20 25 30
 Gly Cys Ser Gly Trp Ala Pro Trp Leu Ser Leu Gln Cys Gln His Phe
 35 40 45
 Gly Arg Pro Arg Trp Ala Asp His Leu Arg Ser Gly Val Arg Asp Gln
 50 55 60
 Pro Gly Gln Tyr Ser Lys Thr Thr Phe Leu Pro Lys Ile Gln Lys Leu
 65 70 75 80
 Ala Gly His Ser Gly Ala His Leu Xaa Ser Xaa Leu Leu Glu Arg Met
 85 90 95
 Arg Trp Lys Asn Arg Leu Asn Pro Gly Gly Arg Ser Cys Ser Glu Pro
 100 105 110
 Arg Trp His His Cys Thr Pro Gly Trp Ala Thr Glu Arg Gly
 115 120 125 126

<210> 2534
 <211> 88
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(88)
 <223> Xaa = any amino acid or nothing

```

<400> 2534
Leu Ser Gly Phe Lys Ser Leu Met Pro Lys Ile Pro Leu Gln Tyr Ile
 1           5           10           15
Tyr Val Arg Val Arg Thr Thr Trp Ser Phe Cys Leu Pro Leu Asp Gly
          20           25           30
Arg Lys Leu Met Leu Ser Xaa Tyr Ser Lys Xaa Leu Thr Xaa Lys Tyr
          35           40           45
Asn Ile Leu Pro Glu Tyr Ser Arg Met Thr Leu Pro Pro Gly Met Val
          50           55           60
Ile His Thr Cys Asn Pro Ser Thr Leu Gly Gly Arg Ala Gly Trp Ile
          65           70           75           80
Val Xaa Ala Gln Glu Phe Glu Thr
          85           88

```

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<210> 2535
<211> 117
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(117)
<223> Xaa = any amino acid or nothing

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```

<400> 2535
Arg Cys Pro Met Trp Gln Gly Gln Ala Ser Arg Met Asp Pro Ala Lys
 1           5           10           15
Ala Lys Asp Arg Glu Ala Ser Thr Cys Cys Ser Leu Ala Trp Trp Trp
          20           25           30
Gly Trp Glu Cys Trp Val Arg Ala Leu Lys Leu Ser Ser Gly Pro Ala
          35           40           45
Gly Pro Leu Ala Cys Trp Val Ala Lys Lys Lys Ser Leu Ser Leu Ser
          50           55           60
Gly Pro Val Tyr Pro Ser Glu Lys Gly Ala Gly Leu Tyr Val Phe Xaa
          65           70           75           80
Asp Arg Val Ser Leu Cys His Pro Gly Trp Ser Ala Val Val Gln Phe
          85           90           95
Trp Leu Thr Ala Ala Ser Asn Ser Cys Phe Ser Leu Leu Ser Ser Trp
          100          105          110
Asp Tyr Arg Cys Ala
          115          117

```

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<210> 2536
<211> 59
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(59)
<223> Xaa = any amino acid or nothing

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<400> 2536
His Ile Pro Gln Leu His Thr Lys Thr His Tyr Val Pro Thr Arg Met
 1           5           10           15
Val Asn Lys Ile Xaa Gln Ile Asp Asn Ser Lys Pro Trp Gln Arg Gly
          20           25           30
Gly Xaa Thr Gly Ile Leu Thr His Cys Trp Xaa Glu Ser Lys Leu Val
          35           40           45

```

Gln Pro Leu Trp Lys Ile Val Trp His Tyr Gln
 50 55 59

<210> 2537
 <211> 128
 <212> PRT
 <213> Homo sapiens
 <221> misc_feature
 <222> (1)...(128)
 <223> Xaa = any amino acid or nothing

<400> 2537
 Glu Val Ala Pro Gly Pro Ser Gln Ile Leu Pro Arg Arg Val Thr Asp
 1 5 10 15
 Gly Gly Asp Arg Pro Gln Phe Ser Leu Pro Gly Pro Arg Leu Pro Gln
 20 25 30
 Ser Ser Arg Gly Ala Glu Pro Cys Leu Ser Asn Cys Ile His Ser Pro
 35 40 45
 Ala Pro Arg Lys Gln Arg Met Gly Asp Ser Asp Gln Xaa Ser Thr Pro
 50 55 60
 Asn Pro Ala Ser Pro His Pro Glu Ala Pro Gln Glu Pro Trp Asp Ser
 65 70 75 80
 Ala Ser Gly Ser Val Gly Ser Phe Ser Leu Gly Arg Gly Ala Lys Ala
 85 90 95
 Ser Ser Xaa Val Pro Gly Lys Gly Arg Gly Pro Arg Gln Gly Ser Glu
 100 105 110
 Leu Leu Ala Glu Thr Ile Leu Glu Leu Phe Leu Ala Leu Ala Asn Ser
 115 120 125 128

<210> 2538
 <211> 91
 <212> PRT
 <213> Homo sapiens
 <221> misc_feature
 <222> (1)...(91)
 <223> Xaa = any amino acid or nothing

<400> 2538
 Thr Met Asp Lys Lys Asn Arg His Gly Asn Ser Leu Asp Met Ala Ser
 1 5 10 15
 Glu Ile His Met Thr Gly Pro Met Cys Leu Ile Glu Asn Thr Thr Gly
 20 25 30
 Arg Leu Met Ala Asn Pro Glu Ala Leu Lys Ile Leu Ser Ala Ile Thr
 35 40 45
 Gln Pro Met Val Glu Glu Ala Ile Ala Gly Leu Tyr Arg Ala Cys Xaa
 50 55 60
 Phe Tyr Leu Thr Asn Asn Leu Ala Gly Met Lys Lys Gly Leu Cys Leu
 65 70 75 80
 Gly Ser Thr Glu Gln Ala His Thr Ile Gly Ile
 85 90 91

<210> 2539

<211> 62
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(62)
 <223> Xaa = any amino acid or nothing

<400> 2539
 Gly His Val Gln Ser Gln His Phe Gly Arg Pro Arg Arg Ala Asp His
 1 5 10 15
 Leu Arg Ser Gly Asp Arg Asp His Pro Gly Xaa His Asp Glu Thr Pro
 20 25 30
 Ser Leu Leu Lys Ile Gln Lys Ile Ser Trp Ala Trp Trp Arg Ala Pro
 35 40 45
 Val Val Pro Ala Thr Trp Glu Ala Glu Ala Glu Glu Trp Arg
 50 55 60 62

<210> 2540
 <211> 125
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(125)
 <223> Xaa = any amino acid or nothing

<400> 2540
 Val Thr Val Gly Leu Thr Leu Leu Leu Arg Gly Ala Pro Arg Phe Thr
 1 5 10 15
 Ala Gly Xaa Pro Pro Ser Gly Gly Gly Pro Pro Leu Ala Pro Leu Leu
 20 25 30
 Pro Arg Gln His Cys Thr Leu Gln Thr His Arg His Leu His Pro Glu
 35 40 45
 Ala Pro Val Lys Val Xaa Lys Thr Xaa Arg Leu Phe Pro Gly Leu Arg
 50 55 60
 Gly Ala Ser Ser Cys Arg Arg Arg Cys Asn Pro Val Leu Ala Ala
 65 70 75 80
 Arg Lys Ala Gly Ser Pro Arg Ser His Ser Thr Arg Glu Asn Cys Arg
 85 90 95
 Arg Ser Arg Cys Pro Asp Thr Ala His Arg Arg Arg Arg Arg Gly Arg
 100 105 110
 Arg Arg Asn Pro Ser Cys Val Arg Ser Pro Arg Trp Arg
 115 120 125

<210> 2541
 <211> 137
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(137)
 <223> Xaa = any amino acid or nothing

<400> 2541
 Leu Ala Asp Ala Leu Cys Leu Ser Ala Ala Ala Thr Gly Ala Val Arg
 1 5 10 15

```

Pro Gly Ala Arg Ala Gln Pro Ser Thr Arg Arg Arg Leu Ser Pro Ser
      20      25      30
Val Arg Val Cys Cys Arg Ala Ala Ala Ser Asn Leu Leu Tyr Ser
      35      40      45
Ser Cys Leu Gln Arg His Ser Glu Arg Ala Ser Glu Glu Gly Glu Arg
      50      55      60
Gly Ser Leu Ser Ala Lys Cys Cys Ser Leu Val Leu Arg Gly Gly Cys
      65      70      75      80
Ser Ser Ser Asn Ser His Ser Phe Arg Arg Ile Thr Xaa Glu Ile Met
      85      90      95
Ala Ala Phe Val Leu Leu Ser Tyr Glu Gln Arg Pro Leu Lys Arg Pro
      100      105      110
Arg Leu Gly Pro Pro Asp Val Tyr Pro Pro Asp Pro Lys Gln Lys Glu
      115      120      125
Glu Glu Leu Thr Ala Val Asn Val Lys
      130      135      137

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<210> 2542
<211> 76
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(76)
<223> Xaa = any amino acid or nothing

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<400> 2542
Val Ser Phe Leu Ser Met Ser Ser Gly His Cys Ile Arg Ser Thr Arg
  1      5      10      15
Gly Ser Lys Met Val Ser Trp Ser Val Ile Ala Lys Ile Gln Glu Ile
      20      25      30
Xaa Cys Glu Glu Asp Glu Arg Lys Met Ala Arg Glu Phe Leu Ala Glu
      35      40      45
Phe Met Ser Thr Tyr Val Met Met Asn Ile His Met Ile Val Glu Lys
      50      55      60
Asp Thr Tyr Ser Asp His Glu Glu Ile Asn Thr Ser
      65      70      75      76

```

```

<210> 2543
<211> 62
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(62)
<223> Xaa = any amino acid or nothing

```

```

<400> 2543
Ile Ala Lys Ser Gln Xaa Lys Arg Trp Gln Arg Ser Gly Ala Met Glu
  1      5      10      15
Thr Leu Lys His Gly Trp Trp Glu Cys Lys Leu Val Gln Phe Phe Gly
      20      25      30
Lys Thr Phe Val Asn Val Asn Xaa Ser Xaa Thr Tyr Val Tyr Pro Cys
      35      40      45
Asp Lys Ile Ile Leu Leu Leu Gly Leu Tyr Pro Thr Glu Met
      50      55      60      62

```

<210> 2544
 <211> 125
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(125)
 <223> Xaa = any amino acid or nothing

<400> 2544
 Pro Leu Gln Arg Ser Lys Cys Leu Thr Leu Arg Cys Leu Arg Ala Lys
 1 5 10 15
 Pro Trp Ala Trp Ser Gln Ser Pro Arg Ala Cys Ser Ser Ala Leu Leu
 20 25 30
 Lys Ser Ser Arg Ser Arg Ala Ser Ser Leu Asn Val Gln Cys Ile Leu
 35 40 45
 Gln Ser Asn Pro Gln Gly His Gln Arg Ile Xaa Lys Gln Lys Ala Ser
 50 55 60
 Ser Lys Gly Gln Gln Phe Arg Arg Xaa Lys Glu His Pro Phe Met Leu
 65 70 75 80
 Lys Thr Leu Asn Lys Leu Arg Ile Glu Gly Thr Xaa Leu Lys Ile Arg
 85 90 95
 Arg Ala Ile Tyr Asp Asn Pro Thr Ala Asn Ile Ile Val Glu Gly Gln
 100 105 110
 Lys Leu Glu Ala Phe Pro Leu Arg Thr Gly Thr Arg Gln
 115 120 125

<210> 2545
 <211> 209
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(209)
 <223> Xaa = any amino acid or nothing

<400> 2545
 Gly His Gly Ala Pro Ser Phe Gln Thr Gln Val Pro Arg Thr Pro Xaa
 1 5 10 15
 Ala Ser Trp Pro Val Val Pro Ala Ala Ser Glu Ser Ala Pro Ala Pro
 20 25 30
 Ala Gly Gly Gly Ala Ser Leu Pro Val Ala Ala Gly Ser Cys Ala Ala
 35 40 45
 Ala Pro His Thr Glu Pro Gly Ala Pro Gln His Leu Leu Asp Cys Pro
 50 55 60
 Cys Pro Leu Cys Leu Ala Arg Pro Pro Arg Arg Pro Leu Pro Asp Thr
 65 70 75 80
 Cys Tyr Gly Pro Gly Ser Gly Arg Ser Ala Ser Leu Ala Glu Pro Pro
 85 90 95
 Leu Pro Arg Cys Ser Cys Ala Pro Leu Arg Ser Ala Ser Ala Pro Gln
 100 105 110
 Val Ser Xaa Cys Val Xaa Ala Val Asn Leu Leu Pro His Asn Leu Xaa
 115 120 125
 Pro Leu His Leu Leu Leu His Asp Xaa Glu Lys Ala Trp Gly Phe Leu
 130 135 140
 Phe Ser Ser Ala Ser His Cys Phe Gln Gly Gln Ile Cys Leu Leu Pro
 145 150 155 160
 Ala Pro Gly Ser Gly Pro Cys Gly Ala Thr Ala Arg Pro Ser Arg Gly
 165 170 175

Gly Arg Ala Gly Gly Ser Arg Ala Arg Arg Pro Ile Pro Pro Gly Pro
 180 185 190
 Gly Thr Arg Arg Thr Pro Ser Gly Cys Gln Asn Pro Ala Ala Ser Gly
 195 200 205
 Gly
 209

<210> 2546
 <211> 80
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(80)
 <223> Xaa = any amino acid or nothing

<400> 2546
 Arg Ser Pro Thr Ala Thr Pro Ala Pro His Ala Met Gly Pro Gly Ala
 1 5 10 15
 Pro Phe Ala Arg Gly Gly Arg Pro Leu Pro Leu Leu Gly Ala Met Ala
 20 25 30
 Glu Arg Val Ala Pro Gly Trp Asp Leu His Thr Pro Tyr Leu Pro Arg
 35 40 45
 Thr Asn Ser Arg Arg Thr Pro His Leu Xaa Xaa Glu Pro His Ala Gly
 50 55 60
 Tyr Ile Gly Ala Leu Phe Pro Met Ser Gly Gly Trp Pro Gly Gly Gln
 65 70 75 80

<210> 2547
 <211> 80
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(80)
 <223> Xaa = any amino acid or nothing

<400> 2547
 Ile Ala Trp Leu Ser Gly Leu Phe Phe Pro Ser Asn Gln Ala Asn Leu
 1 5 10 15
 Cys Phe Leu Cys Tyr Lys Leu Thr Ala Asp Ser Arg Tyr Arg Gly His
 20 25 30
 Ala Met Arg His Leu Thr Gly Asn Thr Ser Met Ala Ile Arg Phe Leu
 35 40 45
 Xaa Ala Asp Ser Arg Phe Gln Val Gln Arg Ala Arg Tyr Glu Ala Pro
 50 55 60
 Asn Trp Lys Tyr Lys Tyr Gly Tyr Xaa Ile Pro Val Asp Met Leu Cys
 65 70 75 80

<210> 2548
 <211> 68
 <212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(68)

<223> Xaa = any amino acid or nothing

<400> 2548

```

Lys Asn Lys Lys Thr Thr Lys Cys Leu Ser Ile Val Thr Leu Asn Ile
 1             5             10             15
Ser Gly Pro Asn Gln Xaa Asn Lys Arg His Arg Val Ala Glu Trp Ile
                20             25             30
Val Lys Gln Glu Pro Asn Ile Cys His Leu Xaa Glu Thr His Phe Pro
                35             40             45
Phe Arg Asp Thr Tyr Arg Leu Lys Glu Arg Glu Gln Lys Lys Arg Lys
 50             55             60
Ser Ser Tyr Ser
65             68

```

<210> 2549

<211> 53

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(53)

<223> Xaa = any amino acid or nothing

<400> 2549

```

Gly Gly Arg Phe Lys Glu Ser Lys Leu Thr Asn Ala Gly Trp Gln Arg
 1             5             10             15
Asn Ser Phe Phe Ile Gly Pro Pro Lys Ser Ile Pro Trp Ala Ala Val
                20             25             30
Xaa Gln Arg Gly Asp Gly Lys Asn Pro Gly Val Thr His Leu Asn Arg
                35             40             45
Pro Val Gly Thr Xaa
50             53

```

<210> 2550

<211> 62

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(62)

<223> Xaa = any amino acid or nothing

<400> 2550

```

Val Asn Ala Glu Lys Glu Phe Xaa Lys Ile Gln His Tyr Phe Met Thr
 1             5             10             15
Lys Ser Gln Asn Lys Leu His Ile Glu His Thr Tyr Leu Lys Pro Ile
                20             25             30
Lys Ala Ile Tyr Asp Lys Trp Thr Ser Asp Ile Met Leu Asn Leu Gln
                35             40             45
Lys Leu Xaa Ala Phe Phe Leu Arg Val Ile Val Arg Gln Ile
50             55             60             62

```

<210> 2551
 <211> 196
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(196)
 <223> Xaa = any amino acid or nothing

<400> 2551
 Ser Ser Val Val Glu Phe Pro Arg Gly Pro Arg Ser Ser Leu Pro Pro
 1 5 10 15
 Leu Asp Ser Thr Phe Pro Cys Gly Ser Ser Pro Asn Trp Thr Gly Gly
 20 25 30
 Cys Gly Ser Cys Pro Ser Gly Glu Xaa Leu Val Ser Pro Gly Ser Glu
 35 40 45
 Gln Arg Lys Lys Tyr Ser Asn Ser Asn Val Ile Met His Glu Thr Ser
 50 55 60
 Gln Tyr His Val Gln His Leu Ala Thr Phe Ile Met Asp Lys Ser Glu
 65 70 75 80
 Ala Ile Thr Ser Val Asp Asp Ala Ile Arg Lys Leu Val Gln Leu Ser
 85 90 95
 Ser Lys Glu Lys Ile Trp Thr Gln Glu Met Leu Leu Gln Val Asn Asp
 100 105 110
 Gln Ser Leu Arg Leu Leu Asp Ile Glu Ser Gln Glu Glu Leu Glu Asp
 115 120 125
 Phe Pro Leu Pro Thr Val Gln Arg Ser Gln Thr Val Leu Asn Gln Leu
 130 135 140
 Arg Tyr Pro Ser Val Leu Leu Val Cys Gln Asp Ser Glu Gln Ser
 145 150 155 160
 Lys Pro Asp Val His Phe Phe His Cys Asp Glu Val Glu Ala Glu Leu
 165 170 175
 Val His Glu Tyr Met Glu Ser Ala Leu Thr Asp Cys Arg Leu Gly Lys
 180 185 190
 Ala Met Arg Pro
 195 196

<210> 2552
 <211> 142
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(142)
 <223> Xaa = any amino acid or nothing

<400> 2552
 Lys Tyr Gly Asn Glu Gly His Trp Ser Arg Gln Cys Pro Asn Pro Gly
 1 5 10 15
 Lys Pro Ile Arg Pro Cys Pro Leu Cys Arg Gly Pro His Trp Lys Leu
 20 25 30
 Asp Cys Glu Arg Pro Pro Gln Gly Pro Leu Pro Ser Leu Pro Glu Leu
 35 40 45
 Ala Lys Thr Ser Tyr Ser Asp Leu Thr Gly Leu Ala Thr Glu Asp Xaa
 50 55 60
 Trp Gly Pro Gly Met Asp Ala Pro Ala Thr Thr Ile Ala Ser Ser Lys
 65 70 75 80
 Thr Arg Val Thr Leu Met Val Ala Gly Arg Pro Val Phe Phe Leu Ile
 85 90 95

```

Xaa Tyr Arg Ala Thr Tyr Ser Ala Leu Pro Asn Phe Ser Gly Pro Thr
      100      105      110
Gln Ser Ser Gln Val Ser Val Val Gly Ile Asp Gly Gln Val Ser Lys
      115      120      125
Pro Arg Ala Thr Pro Pro Leu Phe Cys Ser Leu His Thr Phe
      130      135      140      142

```

```

<210> 2553
<211> 74
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(74)
<223> Xaa = any amino acid or nothing

```

```

<400> 2553
Arg Arg Lys Phe Glu Arg Lys Gln Lys Gln Xaa Arg Tyr Arg Glu Gly
 1      5      10      15
Lys Gln Tyr Arg Gln Arg Asp Lys Met Lys Glu Trp Gly Glu Lys Glu
      20      25      30
Lys Arg Arg Arg Glu Lys Gly Glu Arg Glu Glu Arg Lys Met Arg His
      35      40      45
Arg Glu Arg Lys Gly Glu Ser Gly Gln Arg Asp Thr Met Glu Asn Trp
      50      55      60
Arg Val Glu Arg Leu Thr Glu Lys Glu Arg
      65      70      74

```

```

<210> 2554
<211> 111
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(111)
<223> Xaa = any amino acid or nothing

```

```

<400> 2554
Glu Asp Lys Arg Leu Arg Leu Val Asp Gly Asp Ser Arg Cys Ala Gly
 1      5      10      15
Arg Val Xaa Ile Tyr His Asp Gly Phe Trp Gly Thr Ile Cys Asp Asp
      20      25      30
Gly Trp Asp Leu Ser Asp Ala His Val Val Cys Gln Lys Leu Gly Cys
      35      40      45
Gly Val Ala Phe Asn Ala Thr Val Ser Ala His Phe Gly Glu Gly Ser
      50      55      60
Gly Pro Ile Trp Leu Asp Asp Leu Asn Cys Thr Gly Thr Glu Ser His
      65      70      75      80
Leu Trp Gln Cys Pro Ser Arg Gly Trp Gly Gln His Asp Cys Arg His
      85      90      95
Lys Glu Asp Ala Gly Val Ile Cys Ser Glu Phe Thr Ala Leu Arg
      100      105      110 111

```

```

<210> 2555
<211> 120
<212> PRT

```

<213> Homo sapiens

<221> misc_feature

<222> (1)...(120)

<223> Xaa = any amino acid or nothing

<400> 2555

Ala	Arg	Gly	Ser	Cys	Pro	Thr	Arg	Pro	Arg	Thr	Ala	Asn	Gly	Arg	Met
1				5					10					15	
Gly	Glu	Thr	Lys	Asp	Ala	Pro	Gln	Met	Leu	Val	Thr	Phe	Lys	Asp	Val
			20					25					30		
Ala	Val	Thr	Phe	Phe	Arg	Glu	Glu	Trp	Arg	Gln	Leu	Val	Leu	Val	His
		35					40					45			
Arg	Thr	Leu	Tyr	Arg	Xaa	Gly	Met	Leu	Glu	Thr	Cys	Gly	Leu	Leu	Asp
	50					55					60				
Thr	Leu	Arg	His	Asn	Val	Pro	Gln	Pro	Asp	Val	Val	His	Leu	Leu	Tyr
	65				70					75					80
His	Gly	Thr	Gln	Leu	Leu	Ile	Val	Lys	Arg	Glu	Val	Ser	His	Ser	Pro
			85						90					95	
Cys	Ala	Gly	Asp	Met	Arg	Glu	Leu	Phe	Thr	Arg	Glu	Ala	Thr	Leu	Thr
			100					105					110		
Pro	His	Pro	Tyr	Asn	Asn	Gly	Ala								
		115					120								

<210> 2556

<211> 146

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(146)

<223> Xaa = any amino acid or nothing

<400> 2556

Thr	Leu	Gly	Ala	Val	Leu	Phe	Ser	Glu	Val	Ser	Lys	Glu	Ser	Ser	Thr
1				5					10					15	
Ser	His	Ser	Gly	Gly	Gln	Leu	Gly	Arg	Gln	Asn	Arg	His	Pro	Lys	Leu
			20					25					30		
Ser	Asn	Phe	Ile	Thr	Pro	Ser	Ser	Pro	Arg	Leu	Lys	Pro	Xaa	Thr	Ala
		35					40					45			
Ser	Ser	Gln	Arg	Asn	Leu	Gly	Gln	Ile	Leu	Asn	Met	Phe	Leu	Thr	Ala
	50					55					60				
Val	Asn	Pro	Gln	Pro	Leu	Ser	Thr	Pro	Ser	Trp	Gln	Ile	Glu	Thr	Lys
	65				70					75					80
Tyr	Ser	Thr	Lys	Val	Leu	Thr	Gly	Asn	Trp	Met	Glu	Glu	Arg	Arg	Lys
			85					90					95		
Gly	Leu	Pro	Tyr	Lys	His	Leu	Ile	Thr	His	His	Gln	Glu	Pro	Pro	His
		100						105					110		
Arg	Tyr	Leu	Ile	Ser	Thr	Tyr	Asp	Asp	His	Tyr	Asn	Arg	His	Gly	Tyr
	115						120					125			
Asn	Pro	Gly	Leu	Pro	Pro	Leu	Arg	Thr	Trp	Asn	Gly	Gln	Lys	Leu	Leu
	130					135						140			
Trp	Leu														
145	146														

<210> 2557

<211> 137

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(137)

<223> Xaa = any amino acid or nothing

<400> 2557

```

Leu Arg Ser Ser Pro Ala Ala Leu Leu Arg Ala Leu Cys Ile Thr Thr
 1           5           10           15
Val Thr Gly Thr Ala Leu Ala Leu Arg Ser Arg Val Ala Thr Thr Asn
          20           25           30
Pro Asp Gly Cys Arg Asn Val Leu Arg Pro Lys Tyr Tyr Arg Leu Cys
          35           40           45
Asp Lys Ala Glu Ser Trp Gly Ile Ala Leu Glu Thr Val Pro Thr Gly
          50           55           60
Val Ala Val Thr Ser Trp Ala Ile Met Leu Thr Val Leu Thr Leu Val
          65           70           75           80
Cys Lys Gly Gln Asp Tyr Asn Arg Arg Gln Lys Leu Pro Thr His Ile
          85           90           95
Leu Cys Leu Leu Xaa Glu Lys Gly Ile Phe Gly Leu Thr Phe Ala Phe
          100          105          110
Ile Ile Gly Leu Asp Gly Ser Thr Gly Pro Thr Arg Phe Phe Leu Phe
          115          120          125
Gly Ile Leu Phe Ser Ile Cys Phe Ser
          130          135          137

```

<210> 2558

<211> 39

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(39)

<223> Xaa = any amino acid or nothing

<400> 2558

```

Ile Lys Asn Tyr Trp Pro Gly Met Val Ala His Ala Cys Asn Pro Ser
 1           5           10           15
Pro Leu Gly Gly Arg Gly Arg Trp Ile Ala Xaa Ala Gln Lys Phe Ala
          20           25           30
Asp Ala Trp Ala Asp Ala Trp
          35           39

```

<210> 2559

<211> 137

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(137)

<223> Xaa = any amino acid or nothing

<400> 2559

```

Lys Ser Leu Arg Asn Val Trp Asp Leu Leu Asn Asn Thr Trp Lys Ala
 1           5           10           15
Asp Arg Phe Phe Cys His Ser Ser Arg Thr Ser Thr Ile Arg Lys Gly
          20           25           30

```

```

Asp Pro Gly Pro Thr Phe Ser Lys Met Ser Ile Trp Thr Ser Gly Arg
   35                               40                   45
Thr Ser Ser Ser Tyr Arg His Asp Glu Lys Arg Asn Ile Tyr Gln Arg
   50                               55                   60
Ile Arg Asp His Asp Leu Leu Asp Lys Arg Lys Thr Val Thr Ala Leu
   65                               70                   75                   80
Lys Ala Gly Glu Asp Arg Ala Ile Leu Leu Gly Leu Ala Met Met Val
                               85                   90                   95
Cys Ser Ile Met Met Xaa Phe Leu Leu Gly Ile Thr Leu Leu Arg Ser
                               100                  105                  110
Tyr Met Gln Ser Val Trp Thr Arg Glu Ser Gln Cys Thr Leu Leu Asn
   115                               120                   125
Ala Ser Ile Thr Glu Thr Phe Asn Cys
   130                               135                   137

```

```

<210> 2560
<211> 127
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(127)
<223> Xaa = any amino acid or nothing

```

```

<400> 2560
Ser Leu His Asp Met Leu Met Leu Ala Glu Gln Gln Gln Lys Gln Lys
  1                               5                               10                   15
Trp Ala Val Asn Thr Gln Asn Thr Ala Trp Ser Asn Ala Asp Ser Lys
                               20                               25                   30
Phe Gly Gln Arg Ile Leu Glu Lys Met Glu Trp Ser Lys Gly Arg Gly
   35                               40                   45
Leu Gly Val Gln Glu Gln Gly Gly Pro Asp Asp Ile Lys Val Gln Val
   50                               55                   60
Lys Asn Asn Asp Leu Gly Leu Gln Ala Thr Ile Asn Asn Glu Ala Asn
   65                               70                   75                   80
Trp Ile Ala His Gln Asp Asp Phe Asn Trp Leu Leu Ala Glu Leu Asn
                               85                   90                   95
Thr Cys Gln Arg Gln Glu Thr Ala Asp Ser Xaa Xaa Xaa Trp Ser Pro
                               100                  105                  110
Lys Asn Ser His Val Gly Lys Asp Ser Gly Glu Leu Ser Ala Lys
   115                               120                   125                   127

```

```

<210> 2561
<211> 124
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(124)
<223> Xaa = any amino acid or nothing

```

```

<400> 2561
Gln Lys His Pro Gly Gly Gly Gln Leu Gly Arg Ser Pro Gln Glu Asp
  1                               5                               10                   15
Ser Arg Phe His Asn Lys Ala Ser Ser Gly Val Ser Arg Val Arg Leu
   20                               25                   30
Gly Arg Ala Trp Trp Leu Thr Pro Val Ile Pro Thr Leu Trp Glu Ala
   35                               40                   45

```

```

Lys Ala Gly Gly Ser Pro Glu Xaa Asp Xaa Ala Gly Arg Gly Gly Ser
 50          55          60
Arg Leu Xaa Ser Gln His Phe Gly Arg Pro Arg Arg Val Asp His Leu
 65          70          75          80
Arg Ser Ala Val Gln Asp Gln Pro Gly Gln His Gly Glu Thr Pro Ser
          85          90          95
Leu Leu Lys Ile Gln Lys Ile Asn Xaa Val Trp Gly Arg Arg Leu Xaa
 100          105          110
Ser Ser Tyr Ser Glu Ala Glu Ala Gly Glu Ser Leu
 115          120          124

```

```

<210> 2562
<211> 105
<212> PRT
<213> Homo sapiens.

<221> misc_feature
<222> (1)...(105)
<223> Xaa = any amino acid or nothing

```

```

<400> 2562
Gln Phe Pro Val Asp Gly Asp Tyr Gln Lys Ile Glu Lys Ile Thr Gln
 1          5          10          15
Leu Phe Gln Ala Gln Asn Leu Ser Leu Cys Leu Ala Met Thr Arg Thr
          20          25          30
Arg Glu Leu Xaa Lys Gly Gly Gly Lys Gly Arg His Glu Xaa Ala Val
          35          40          45
Val Pro Phe Leu Lys Lys Gly Tyr Gly Val Lys Ala Pro Ala Ile
 50          55          60
Leu Asn Thr Ser Asn Cys Thr Xaa Cys Phe Xaa Glu Thr Lys Met Leu
 65          70          75          80
Ser Asp Asp Pro Lys Ala Cys Val Phe Glu Val Ser Ser Ala Asp Leu
          85          90          95
Xaa Asn Thr Ser Phe Gly Val Ile Arg
 100          105

```

```

<210> 2563
<211> 118
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(118)
<223> Xaa = any amino acid or nothing

```

```

<400> 2563
Ala Glu Leu Ser Leu Ala Ser Thr Ala Cys Gly Arg Asn Thr Ser Gly
 1          5          10          15
Asp Ser Leu Pro Asp Tyr Asp Arg Ala Pro Ile Ser Ser Pro Leu Ala
          20          25          30
Thr Ser Gly Thr Ile Leu Ser Ala Ile Ser Cys Leu Trp Asp Leu Pro
          35          40          45
Thr Pro Val Leu Arg Val Gly Leu Ser Cys Gln Pro Ser Met Ser Ser
 50          55          60
Gln Ile Pro Arg Met Tyr Ser Thr Asp Val Glu Ala Ala Val Asn Ser
 65          70          75          80
Leu Glu Asp Leu Tyr Leu Gln Ala Tyr Tyr Ala Tyr Leu Cys Val Gly
          85          90          95

```

Leu Tyr Phe His Arg Asp Asp Met Ala Leu Glu Gly Val Ser Arg Phe
 100 105 110
 Leu Xaa Glu Leu Ala Glu
 115 118

<210> 2564
 <211> 45
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(45)
 <223> Xaa = any amino acid or nothing

<400> 2564
 Ser Leu Ser Arg Trp Val Arg Ala Lys Leu Xaa Val Pro Tyr Asn Gln
 1 5 10 15
 Glu Asn Cys Leu Asn Pro Arg Gly Gly Cys Ser Glu Pro Arg Ser
 20 25 30
 His Tyr Cys Thr Pro Ala Trp Ala Thr Glu Lys Asp Ser
 35 40 45

<210> 2565
 <211> 65
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(65)
 <223> Xaa = any amino acid or nothing

<400> 2565
 Lys Pro Gly Asn Phe Ala Val Ser Ser Glu Tyr Xaa Asp Ile Thr Ser
 1 5 10 15
 Gly Gln Leu Lys Thr Ala Val Arg Gly Xaa Ile Glu Met Thr Ser Thr
 20 25 30
 Glu Glu Asn Phe Gly Glu Lys Leu His Asp Ile Gly Phe Gly Asn Gly
 35 40 45
 Phe Leu Asp Lys Thr Xaa Lys Ala Gln Ala Thr Lys Ala Lys Ile Asp
 50 55 60
 Lys
 65

<210> 2566
 <211> 105
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(105)
 <223> Xaa = any amino acid or nothing

<400> 2566
 Cys Phe Leu Glu Asp Gly Cys Thr Gln Ala Ser Xaa Ala Glu Glu Ala
 1 5 10 15

```

Ala Val Ser Pro Ser Met Ala Glu Glu Glu Gln Gly Ser Thr Ser Cys
      20                      25                      30
Arg Glu Arg Arg Ser Ile Arg Phe Lys Met Lys Asn His Ser Pro Asp
      35                      40                      45
Asp Thr Ile Lys Glu Asn Val Thr Ile Ser Asn Ile Arg Thr Arg Lys
      50                      55                      60
Ile Asn His Leu Pro Glu Thr Glu Arg Asn Leu Leu Glu His Gly Leu
      65                      70                      75                      80
Met Tyr Ile Arg Leu Asn Ala Ala Phe Cys Ser Leu Val Ala His Ser
      85                      90                      95
Leu Phe Gly Phe Ile Leu Lys Ala Thr
      100                      105

```

```

<210> 2567
<211> 141
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(141)
<223> Xaa = any amino acid or nothing

```

```

<400> 2567
Leu His Cys Lys Met Gly Ala Leu Glu Thr Gln Thr His Pro Cys Ser
 1                      5                      10                      15
Gln Asn Met Leu Arg Ser Leu Gln Lys Cys Cys Cys Lys Val Glu Glu
      20                      25                      30
His His Leu Gln Pro Val Gln Val Leu Gln Thr Leu Leu His Ser Ala
      35                      40                      45
Thr Ala Gly Thr Gly Cys Arg Arg Pro Ala Arg Pro Pro Pro Ala Pro
      50                      55                      60
Pro Thr Pro Thr Pro Trp Arg Ser Arg Gln Ser Gly Lys Gln Ser Glu
      65                      70                      75                      80
Arg Ala Ser Xaa Leu Lys Gly Arg Gly Arg Tyr Gly Leu Gly Ala Leu
      85                      90                      95
Gly Gly Arg Gly Gly Arg Ala Leu Gly Gly Ser Arg Trp Pro Pro Pro
      100                      105                      110
Leu Pro Gly Glu Thr Leu Phe Ser Gly Cys Lys His Arg Arg Arg Arg
      115                      120                      125
Arg Gly Ser Asp Ala Ala Pro Gly Glu Glu Ala Gly Thr
      130                      135                      140 141

```

```

<210> 2568
<211> 134
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(134)
<223> Xaa = any amino acid or nothing

```

```

<400> 2568
His Ala Ser Ala Arg Ala Leu Leu Ser Pro Asn Leu Ser Pro Asn Asn
 1                      5                      10                      15
Lys Met Ala Ile Ser Gly Gly Pro Val Leu Gly Phe Phe Ile Ile Ala
      20                      25                      30
Val Leu Met Ser Ala Gln Glu Pro Trp Ala Ile Lys Glu Glu His Val
      35                      40                      45

```

```

Ile Ile Gln Ala Glu Phe Tyr Leu Asn Pro Asp Gln Ser Gly Glu Phe
  50                      55                      60
Met Leu Asp Phe Glu Gly Glu Asp Thr Phe His Gly Asp Met Ala Lys
  65                      70                      75                      80
Lys Glu Thr Val Trp Arg Leu Glu Xaa Leu Ala Arg Leu Asp Asn Phe
                      85                      90                      95
Glu Ala Gln Arg Ala Leu Ala Asn Ile Ala Ala Asp Gln Ala Ala Leu
                      100                      105                      110
Glu Ile Met Asp Met Gly Ser Asp Tyr Thr Leu Ile Pro Asn Val Pro
                      115                      120                      125
Pro Lys Val Thr Val Leu
  130                      134

```

```

<210> 2569
<211> 94
<212> PRT
<213> Homo sapiens

```

```

<400> 2569
Pro Asp Trp Thr Glu Lys Arg Lys Met Gln Asp Thr Gly Ser Ile Leu
  1                      5                      10                      15
Pro Leu His Trp Phe Gly Phe Gly Tyr Ala Ala Leu Val Ala Tyr Gly
                      20                      25                      30
Gly Ile Ile Gly Tyr Val Lys Ala Gly Ser Val Pro Ser Leu Ala Ala
                      35                      40                      45
Gly Leu Leu Phe Gly Ser Leu Ser Gly Leu Gly Ala Tyr Gln Leu Ser
                      50                      55                      60
Gln Asp Pro Arg Asn Val Trp Val Phe Leu Ala Thr Ser Gly Thr Leu
                      65                      70                      75                      80
Ala Gly Ile Met Gly Met Arg Phe Tyr His Ser Gly Lys Leu
                      85                      90                      94

```

```

<210> 2570
<211> 166
<212> PRT
<213> Homo sapiens

```

```

<400> 2570
Leu Leu Leu Thr Gly Tyr Ile Gln Thr Leu Gln Asn Gln Gln Leu Ser
  1                      5                      10                      15
Gly Asn Gln Gln Glu Met Gln Ala Val Asp Asn Leu Thr Ser Ala Pro
                      20                      25                      30
Gly Asn Thr Ser Leu Cys Thr Arg Asp Tyr Lys Ile Thr Gln Val Leu
                      35                      40                      45
Phe Pro Leu Leu Tyr Thr Val Leu Phe Phe Val Gly Leu Ile Thr Asn
                      50                      55                      60
Gly Leu Ala Met Arg Ile Phe Phe Gln Ile Arg Ser Lys Ser Asn Phe
                      65                      70                      75                      80
Ile Ile Phe Leu Lys Asn Thr Val Ile Ser Asp Leu Leu Met Ile Leu
                      85                      90                      95
Thr Phe Pro Phe Lys Ile Leu Ser Asp Ala Lys Leu Gly Thr Gly Pro
                      100                      105                      110
Leu Arg Thr Phe Val Cys Gln Val Thr Ser Val Ile Phe Tyr Phe Thr
                      115                      120                      125
Met Tyr Ile Ser Ile Ser Phe Leu Gly Leu Ile Thr Ile Asp Arg Tyr
                      130                      135                      140
Gln Lys Thr Thr Arg Pro Phe Lys Thr Ser Asn Pro Lys Asn Leu Leu
                      145                      150                      155                      160

```

Gly Ala Lys Ile Leu Lys
165 166

<210> 2571
<211> 133
<212> PRT
<213> Homo sapiens

<400> 2571
Lys Glu Arg Asp Ser Ser Thr Phe Ser Ala Ala Met Thr Thr Met Gln
1 5 10 15
Gly Met Glu Gln Ala Met Pro Gly Ala Gly Pro Gly Val Pro Gln Leu
20 25 30
Gly Asn Met Ala Val Ile His Ser His Leu Trp Lys Gly Leu Gln Glu
35 40 45
Lys Phe Leu Lys Gly Glu Pro Lys Val Leu Gly Val Val Gln Ile Leu
50 55 60
Thr Ala Leu Met Ser Leu Ser Met Gly Ile Thr Met Met Cys Met Ala
65 70 75 80
Ser Asn Thr Tyr Gly Ser Asn Pro Ile Ser Val Tyr Ile Gly Tyr Thr
85 90 95
Ile Trp Gly Ser Val Met Phe Ile Ile Ser Gly Ser Leu Ser Ile Ala
100 105 110
Ala Gly Ile Arg Thr Thr Lys Gly Leu Val Arg Gly Ser Leu Gly Met
115 120 125
Asn Ile Thr Ser Ser
130 133

<210> 2572
<211> 123
<212> PRT
<213> Homo sapiens

<400> 2572
Val Ala Lys Met Val Lys Cys Cys Ser Ala Ile Gly Cys Ala Ser Arg
1 5 10 15
Cys Leu Pro Asn Ser Lys Leu Lys Gly Leu Thr Phe His Val Phe Pro
20 25 30
Thr Asp Glu Asn Ile Lys Arg Lys Trp Val Leu Ala Met Lys Arg Leu
35 40 45
Asp Val Asn Ala Ala Gly Ile Trp Glu Pro Lys Lys Gly Asp Val Leu
50 55 60
Cys Ser Arg His Phe Lys Lys Thr Asp Phe Asp Arg Ser Ala Pro Asn
65 70 75 80
Ile Lys Leu Lys Pro Gly Val Ile Pro Ser Ile Phe Asp Ser Pro Tyr
85 90 95
His Leu Gln Gly Lys Arg Glu Lys Leu His Cys Arg Lys Asn Phe Thr
100 105 110
Leu Lys Thr Val Pro Ala Thr Asn Tyr Asn His
115 120 123

<210> 2573
<211> 85
<212> PRT
<213> Homo sapiens

<400> 2573

```

Arg Thr Ser Met Gly Ile Leu Tyr Ser Glu Pro Ile Cys Gln Ala Ala
 1           5           10           15
Tyr Gln Asn Asp Phe Gly Gln Val Trp Arg Trp Val Lys Glu Asp Ser
           20           25           30
Ser Tyr Ala Asn Val Gln Asp Gly Phe Asn Gly Asp Thr Pro Leu Ile
           35           40           45
Cys Ala Cys Arg Arg Gly His Val Arg Ile Val Ser Phe Leu Leu Lys
           50           55           60
Lys Glu Cys Leu Cys Gln Pro Gln Lys Pro Glu Arg Glu Asn Leu Leu
           65           70           75           80
Ala Leu Cys Cys Glu
                        85

```

<210> 2574

<211> 210

<212> PRT

<213> Homo sapiens

<400> 2574

```

Asp Ala Trp Ala Ser Gly Gly Glu Leu Gly Ser Leu Phe Asp His His
 1           5           10           15
Val Gln Arg Ala Val Cys Asp Thr Arg Ala Lys Tyr Arg Glu Gly Arg
           20           25           30
Arg Pro Arg Ala Val Lys Val Tyr Thr Ile Asn Leu Glu Ser Gln Tyr
           35           40           45
Leu Leu Ile Gln Gly Val Pro Ala Val Gly Val Met Lys Glu Leu Val
           50           55           60
Glu Arg Phe Ala Leu Tyr Gly Ala Ile Glu Gln Tyr Asn Ala Leu Asp
           65           70           75           80
Glu Tyr Pro Ala Glu Asp Phe Thr Glu Val Tyr Leu Ile Lys Phe Met
           85           90           95
Asn Leu Gln Ser Ala Arg Thr Ala Lys Arg Lys Met Asp Glu Gln Ser
           100          105          110
Phe Phe Gly Gly Leu Leu His Val Cys Tyr Ala Pro Glu Phe Glu Thr
           115          120          125
Val Glu Glu Thr Arg Lys Lys Leu Gln Met Arg Lys Ala Tyr Val Val
           130          135          140
Lys Thr Thr Glu Asn Lys Asp His Tyr Val Thr Lys Lys Lys Leu Val
           145          150          155          160
Thr Glu His Lys Asp Thr Glu Asp Phe Arg Gln Asp Phe His Ser Glu
           165          170          175
Met Ser Gly Phe Cys Lys Ala Ala Leu Asn Thr Ser Ala Gly Asn Ser
           180          185          190
Asn Pro Tyr Leu Pro Tyr Ser Cys Glu Leu Pro Leu Cys Tyr Phe Ser
           195          200          205
Ser Lys
210

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<210> 2575

<211> 54

<212> PRT

<213> Homo sapiens

<400> 2575

```

Arg Ser Gly Cys Val Leu Arg Met Thr Glu Trp Glu Thr Gly Ala Pro
 1           5           10           15

```


Ala Val Ala Glu Thr Pro Asp Ile Lys Leu Phe Gly Lys Trp Ser Thr
 20 25 30
 Asp Asp Val His Ile Asn Asp Ile Ser Leu Gln Asp Tyr Ile Ala Gly
 35 40 45
 Val Arg Leu Ile Leu Leu
 50 54

<210> 2576
 <211> 137
 <212> PRT
 <213> Homo sapiens

<400> 2576
 Gln Gly Leu Pro Ser Phe Leu Pro Ala Phe Gly Pro Ser Gly Ser Trp
 1 5 10 15
 Leu Gly Pro Ala Pro Thr Leu Gly Ser Ser Cys Asn Thr Val Asp Thr
 20 25 30
 Ile Cys His Gly Tyr Ser Glu Ile Arg Pro Leu Phe Tyr Leu Ser Phe
 35 40 45
 Cys Asp Leu Leu Leu Gly Leu Cys Trp Leu Thr Glu Thr Leu Leu Tyr
 50 55 60
 Gly Ala Ser Val Ala Asn Lys Asp Ile Ile Cys Tyr Asn Leu Gln Ala
 65 70 75 80
 Val Gly Gln Ile Phe Tyr Ile Ser Ser Phe Leu Tyr Thr Val Asn Tyr
 85 90 95
 Ile Trp Tyr Leu Tyr Thr Glu Leu Arg Met Lys His Thr Gln Ser Gly
 100 105 110
 Gln Ser Thr Ser Pro Leu Val Ile Asp Tyr Thr Cys Arg Val Cys Gln
 115 120 125
 Met Ala Phe Val Phe Ser Ser Leu Ile
 130 135 137

<210> 2577
 <211> 138
 <212> PRT
 <213> Homo sapiens

<400> 2577
 Gly Lys Trp Lys Arg Thr Gln Val Pro Leu Leu Gly Glu Glu Cys Ala
 1 5 10 15
 Asp Met Asp Leu Ala Arg Lys Glu Phe Leu Arg Gly Asn Gly Leu Ala
 20 25 30
 Ala Gly Lys Met Asn Ile Ser Ile Asp Leu Asp Thr Asn Tyr Ala Glu
 35 40 45
 Leu Val Leu Asn Val Gly Arg Val Thr Leu Gly Glu Asn Asn Arg Lys
 50 55 60
 Lys Met Lys Asp Cys Gln Leu Arg Lys Gln Gln Asn Glu Asn Val Ser
 65 70 75 80
 Arg Ala Val Cys Ala Leu Leu Asn Ser Gly Gly Gly Val Ile Lys Ala
 85 90 95
 Glu Val Glu Asn Lys Gly Tyr Ser Tyr Lys Lys Asp Gly Ile Gly Leu
 100 105 110
 Asp Leu Glu Asn Ser Phe Ser Asn Met Leu Pro Phe Val Pro Asn Phe
 115 120 125
 Leu Asp Phe Met Gln Asn Gly Asn Tyr Phe
 130 135 138

<210> 2578
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 2578
 Glu Ala Ser Ser Ser Asn Thr Val Ala Ser Asn Val Ala Asp Lys Thr
 1 5 10 15
 Asp Pro His Ser Met Asn Ser Arg Val Phe Ile Gly Asn Leu Asn Thr
 20 25 30
 Leu Val Leu Gln Lys Ser Asp Val Glu Ala Val Phe
 35 40 44

<210> 2579
 <211> 260
 <212> PRT
 <213> Homo sapiens

<400> 2579
 Leu Phe Ala Met Ser Gly Phe Glu Asn Leu Asn Thr Asp Phe Tyr Gln
 1 5 10 15
 Thr Ser Tyr Ser Ile Asp Asp Gln Ser Gln Gln Ser Tyr Asp Tyr Gly
 20 25 30
 Gly Ser Gly Gly Pro Tyr Ser Lys Gln Tyr Ala Gly Tyr Asp Tyr Ser
 35 40 45
 Gln Gln Gly Arg Phe Val Pro Pro Asp Met Met Gln Pro Gln Gln Pro
 50 55 60
 Tyr Thr Gly Gln Ile Tyr Gln Pro Thr Gln Ala Tyr Thr Pro Ala Ser
 65 70 75 80
 Pro Gln Pro Phe Tyr Gly Asn Asn Phe Glu Asp Glu Pro Pro Leu Leu
 85 90 95
 Glu Glu Leu Gly Ile Asn Phe Asp His Ile Trp Gln Lys Thr Leu Thr
 100 105 110
 Val Leu His Pro Leu Lys Val Ala Asp Gly Ser Ile Met Asn Glu Thr
 115 120 125
 Asp Leu Ala Gly Pro Met Val Phe Cys Leu Ala Phe Gly Ala Thr Leu
 130 135 140
 Leu Leu Ala Gly Lys Ile Gln Phe Gly Tyr Val Tyr Gly Ile Ser Ala
 145 150 155 160
 Ile Gly Cys Leu Gly Met Phe Cys Leu Leu Asn Leu Met Ser Met Thr
 165 170 175
 Gly Val Ser Phe Gly Cys Val Ala Ser Val Leu Gly Tyr Cys Leu Leu
 180 185 190
 Pro Met Ile Leu Leu Ser Ser Phe Ala Val Ile Phe Ser Leu Gln Gly
 195 200 205
 Met Val Gly Ile Ile Leu Thr Ala Gly Ile Ile Gly Trp Cys Ser Phe
 210 215 220
 Ser Ala Ser Lys Ile Phe Ile Ser Ala Leu Ala Met Glu Gly Gln Gln
 225 230 235 240
 Leu Leu Val Ala Tyr Pro Cys Ala Leu Leu Tyr Gly Val Phe Ala Leu
 245 250 255
 Ile Ser Val Phe
 260

<210> 2580
 <211> 78
 <212> PRT

<213> Homo sapiens

<400> 2580

Thr	Phe	Val	Leu	Asn	Met	Asn	Thr	Pro	Lys	Glu	Glu	Phe	Gln	Asp	Trp
1				5					10					15	
Pro	Ile	Val	Arg	Ile	Ala	Ala	His	Leu	Pro	Asp	Leu	Ile	Val	Tyr	Gly
		20						25					30		
His	Phe	Ser	Pro	Glu	Arg	Pro	Phe	Met	Asp	Tyr	Phe	Asp	Gly	Val	Leu
		35					40					45			
Met	Phe	Val	Asp	Ile	Ser	Gly	Lys	Cys	Lys	Arg	Asp	Val	Cys	Leu	Met
	50					55					60				
Trp	Met	Ser	Asn	Arg	Leu	Ala	Trp	Glu	Phe	Thr	Cys	Arg	Ala		
65					70					75			78		

<210> 2581

<211> 354

<212> PRT

<213> Homo sapiens

<400> 2581

Thr	Pro	Leu	Phe	Asp	Phe	Trp	Pro	Gly	Phe	Val	Leu	Ser	Trp	Leu	Gln
1				5					10					15	
Pro	Leu	Ser	Ala	Ser	Leu	Arg	Ala	Arg	Arg	Ala	Ala	Ser	Gly	Pro	Pro
		20						25					30		
Ala	Cys	Arg	Ile	Met	Pro	Thr	Thr	Val	Asp	Asp	Val	Leu	Glu	His	Gly
		35					40					45			
Gly	Glu	Phe	His	Phe	Phe	Gln	Lys	Gln	Met	Phe	Phe	Leu	Leu	Ala	Leu
	50					55					60				
Leu	Ser	Ala	Thr	Phe	Ala	Pro	Ile	Tyr	Val	Gly	Ile	Val	Phe	Leu	Gly
65					70					75					80
Phe	Thr	Pro	Asp	His	Arg	Cys	Arg	Ser	Pro	Gly	Val	Ala	Glu	Leu	Ser
			85						90					95	
Leu	Arg	Cys	Gly	Trp	Ser	Pro	Ala	Glu	Glu	Leu	Asn	Tyr	Thr	Val	Pro
		100						105						110	
Gly	Pro	Gly	Pro	Ala	Gly	Glu	Ala	Ser	Pro	Arg	Gln	Cys	Arg	Arg	Tyr
		115				120						125			
Glu	Val	Asp	Trp	Asn	Gln	Ser	Thr	Phe	Asp	Cys	Val	Asp	Pro	Leu	Ala
	130					135					140				
Ser	Leu	Asp	Thr	Asn	Arg	Ser	Arg	Leu	Pro	Leu	Gly	Pro	Cys	Arg	Asp
145					150					155					160
Gly	Trp	Val	Tyr	Glu	Thr	Pro	Gly	Ser	Ser	Ile	Val	Thr	Glu	Phe	Asn
			165					170						175	
Leu	Val	Cys	Ala	Asn	Ser	Trp	Met	Leu	Asp	Leu	Phe	Gln	Ser	Ser	Val
		180						185					190		
Asn	Val	Gly	Phe	Phe	Ile	Gly	Ser	Met	Ser	Ile	Gly	Tyr	Ile	Ala	Asp
		195				200						205			
Arg	Phe	Gly	Arg	Lys	Leu	Cys	Leu	Leu	Thr	Thr	Val	Leu	Ile	Asn	Ala
	210					215					220				
Ala	Ala	Gly	Val	Leu	Met	Ala	Ile	Ser	Pro	Thr	Tyr	Thr	Trp	Met	Leu
225					230					235					240
Ile	Phe	Arg	Leu	Ile	Gln	Gly	Leu	Val	Ser	Lys	Ala	Gly	Trp	Leu	Ile
			245						250					255	
Gly	Tyr	Ile	Leu	Ile	Thr	Glu	Phe	Val	Gly	Arg	Arg	Tyr	Arg	Arg	Thr
		260						265					270		
Val	Gly	Ile	Phe	Tyr	Gln	Val	Ala	Tyr	Thr	Val	Gly	Leu	Leu	Val	Leu
		275					280					285			
Ala	Gly	Val	Ala	Tyr	Ala	Leu	Pro	His	Trp	Arg	Trp	Leu	Gln	Phe	Thr
	290					295					300				
Val	Ala	Leu	Pro	Asn	Phe	Phe	Phe	Leu	Leu	Tyr	Tyr	Trp	Cys	Ile	Pro
305					310					315					320

Glu Ser Pro Arg Trp Leu Ile Ser Gln Asn Lys Asn Ala Glu Ala Met
 325 330 335
 Arg Ile Ile Lys His Ile Ala Lys Lys Asn Gly Lys Ser Leu Pro Ala
 340 345 350
 Ser Leu
 354

<210> 2582
 <211> 118
 <212> PRT
 <213> Homo sapiens

<400> 2582
 Pro Gly Pro Gly Met Gln Gly Pro Pro Pro Ile Thr Pro Thr Ser Trp
 1 5 10 15
 Ser Leu Pro Pro Trp Arg Ala Tyr Val Ala Ala Ala Val Leu Cys Tyr
 20 25 30
 Ile Asn Leu Leu Asn Tyr Met Asn Trp Phe Ile Ile Ala Gly Val Leu
 35 40 45
 Leu Asp Ile Gln Glu Val Phe Gln Ile Ser Asp Asn His Ala Gly Leu
 50 55 60
 Leu Gln Thr Val Phe Val Ser Cys Leu Leu Leu Ser Ala Pro Val Phe
 65 70 75 80
 Gly Tyr Leu Gly Asp Arg His Ser Arg Lys Ala Thr Met Ser Phe Gly
 85 90 95
 Ile Leu Leu Trp Ser Gly Ala Gly Leu Ser Ser Ser Phe Ile Ser Pro
 100 105 110
 Arg Tyr Ser Trp Leu Phe
 115 118

<210> 2583
 <211> 131
 <212> PRT
 <213> Homo sapiens

<400> 2583
 Leu Pro Ala Pro Trp Thr Glu Arg Val Arg Lys Ser Glu Gly Leu Val
 1 5 10 15
 Gly Thr Cys Leu Gly Asp Pro Met Ala Ser Pro Arg Thr Val Thr Ile
 20 25 30
 Val Ala Leu Ser Val Ala Leu Gly Leu Phe Phe Val Phe Met Gly Thr
 35 40 45
 Ile Lys Leu Thr Pro Arg Leu Ser Lys Asp Ala Tyr Ser Glu Met Lys
 50 55 60
 Arg Ala Tyr Lys Ser Tyr Val Arg Ala Leu Pro Leu Leu Lys Lys Met
 65 70 75 80
 Gly Ile Asn Ser Ile Leu Leu Arg Lys Ser Ile Gly Ala Leu Glu Val
 85 90 95
 Ala Cys Gly Ile Val Met Thr Leu Val Pro Gly Arg Pro Lys Asp Val
 100 105 110
 Ala Asn Phe Phe Leu Leu Leu Leu Val Leu Ala Val Leu Phe Phe His
 115 120 125
 Gln Leu Val
 130 131

<210> 2584

<211> 128
 <212> PRT
 <213> Homo sapiens

<400> 2584
 Arg Leu Glu Leu Asp Trp Gly Phe Ser Leu His Phe Leu Pro Val Ala
 1 5 10 15
 Tyr Leu Cys Pro Leu Ser Ser Gly Phe Glu Met Asn Val Gln Pro Cys
 20 25 30
 Ser Arg Cys Gly Tyr Gly Val Tyr Pro Ala Glu Lys Ile Ser Cys Ile
 35 40 45
 Asp Gln Ile Trp His Lys Ala Cys Phe His Cys Glu Val Cys Lys Met
 50 55 60
 Met Leu Ser Val Asn Asn Phe Val Ser His Gln Lys Lys Pro Tyr Cys
 65 70 75 80
 His Ala His Asn Pro Lys Asn Asn Thr Phe Thr Ser Val Tyr His Thr
 85 90 95
 Pro Leu Asn Leu Asn Val Arg Thr Phe Pro Glu Ala Ile Ser Gly Ile
 100 105 110
 His Asp Gln Glu Asp Gly Glu Gln Cys Lys Ser Val Phe His Trp Asp
 115 120 125 128

<210> 2585
 <211> 169
 <212> PRT
 <213> Homo sapiens

<400> 2585
 Ile Arg Ser Gly Ala Met Ser Val Asp Lys Ala Glu Leu Cys Gly Ser
 1 5 10 15
 Leu Leu Thr Trp Leu Gln Thr Phe His Val Pro Ser Pro Cys Ala Ser
 20 25 30
 Pro Gln Asp Leu Ser Ser Gly Leu Ala Val Ala Tyr Val Leu Asn Gln
 35 40 45
 Ile Asp Pro Ser Trp Phe Asn Glu Ala Trp Leu Gln Gly Ile Ser Glu
 50 55 60
 Asp Pro Gly Pro Asn Trp Lys Leu Lys Val Thr Ser Gly Leu Leu Ile
 65 70 75 80
 Arg Gly Gln Thr Gly Glu Glu Met Thr Arg Asp Gly Pro Ala Arg His
 85 90 95
 Met Ser Trp Val Met Gly Arg Lys Arg Asp Arg Cys Leu Val Ile Asn
 100 105 110
 His Leu Phe Ile His Ser Ser Met Glu Tyr Ser Pro Cys Ala Arg Pro
 115 120 125
 Gly His Ser Ala Arg Asn Asn Thr Asp Lys Asn Leu Pro His Thr Ala
 130 135 140
 Ile Ile Leu Val Thr Ser Asn Thr Tyr Thr Thr Ile Lys Ile Asn Phe
 145 150 155 160
 Gln Ala Gly Arg Ser Gly Ser Cys Leu
 165 169

<210> 2586
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 2586

```

Phe Arg Gly Glu Ala Leu Thr Val Arg Phe Leu Thr Lys Arg Phe Ile
 1           5           10           15
Gly Glu Tyr Ala Ser Asn Phe Glu Ser Ile Tyr Lys Lys His Leu Cys
           20           25           30
Leu Glu Arg Lys Gln Leu Asn Leu Glu Ile Tyr Asp Pro Cys Ser Gln
           35           40           45
Thr Gln Lys Ala Lys Phe Ser Leu Thr Ser Glu Leu His Trp Ala Asp
           50           55           60
Gly Phe Val Ile Val Tyr Asp Ile Ser Asp Arg Ser Ser Phe Ala Phe
           65           70           75           80
Ala Lys Ala Leu Ile
                        85

```

<210> 2587

<211> 83

<212> PRT

<213> Homo sapiens

<400> 2587

```

Asn Ile Leu Ala Ile Ile Tyr Phe Pro Phe Pro Arg Leu Phe Leu Leu
 1           5           10           15
Arg Asp Ser Gln Ser Asn Pro Lys Ala Phe Ala Leu Thr Leu Cys His
           20           25           30
His Gln Lys Ile Lys Asn Phe Gln Ile Leu Pro Val Ser Ile Asp Ala
           35           40           45
Leu Thr Pro Pro Leu Val Val Cys Phe Leu Val Ser Phe Leu Thr His
           50           55           60
Phe Ser Arg Tyr Lys Pro Thr Arg Pro Val Cys Ile Thr Gln Phe Gln
           65           70           75           80
Gly Cys Ser
                        83

```

<210> 2588

<211> 143

<212> PRT

<213> Homo sapiens

<400> 2588

```

Glu Leu Gly Ala Gly Arg Ser Asp Arg Glu Ala Met Glu Ala Ala Val
 1           5           10           15
Lys Glu Glu Ile Ser Val Glu Asp Glu Ala Val Asp Lys Asn Ile Phe
           20           25           30
Arg Asp Cys Asn Lys Ile Ala Phe Tyr Arg Arg Gln Lys Gln Trp Leu
           35           40           45
Ser Lys Lys Ser Thr Tyr Arg Ala Leu Leu Asp Ser Val Thr Thr Asp
           50           55           60
Glu Asp Ser Thr Arg Phe Gln Ile Ile Asn Glu Ala Ser Lys Val Pro
           65           70           75           80
Leu Leu Ala Glu Ile Tyr Gly Ile Glu Gly Asn Ile Phe Arg Leu Lys
           85           90           95
Ile Asn Glu Glu Thr Pro Leu Lys Pro Arg Phe Glu Val Pro Asp Val
           100          105          110
Leu Thr Ser Lys Pro Ser Thr Val Arg Leu Ile Ser Cys Ser Gly Asp
           115          120          125
Thr Gly Ser Leu Ile Leu Ala Asp Gly Lys Gly Asp Leu Lys Cys
           130          135          140          143

```

<210> 2589
 <211> 145
 <212> PRT
 <213> Homo sapiens

<400> 2589
 Val Pro Gly Asp Pro Ala Met Val Arg Ala Gly Ala Val Gly Ala His
 1 5 10 15
 Leu Pro Ala Ser Gly Leu Asp Ile Phe Gly Asp Leu Lys Lys Met Asn
 20 25 30
 Lys Arg Gln Leu Tyr Tyr Gln Val Leu Asn Phe Ala Met Ile Val Ser
 35 40 45
 Ser Ala Leu Met Ile Trp Lys Gly Leu Ile Val Leu Thr Gly Ser Glu
 50 55 60
 Ser Pro Ile Val Val Val Leu Ser Gly Ser Met Glu Pro Ala Phe His
 65 70 75 80
 Arg Gly Asp Leu Leu Phe Leu Thr Asn Phe Arg Glu Asp Pro Ile Arg
 85 90 95
 Ala Gly Glu Ile Val Val Phe Lys Val Glu Gly Arg Asp Ile Pro Ile
 100 105 110
 Val His Arg Val Ile Lys Val His Glu Lys Asp Asn Gly Asp Ile Lys
 115 120 125
 Phe Leu Thr Lys Gly Asp Asn Asn Glu Gly Asp Asp Arg Gly Ser Tyr
 130 135 140
 Lys
 145

<210> 2590
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 2590
 Thr Asp Gly Arg Asp Pro Leu Pro Cys Ala Ala Arg Arg Arg Gly Gly
 1 5 10 15
 Gly Gly Glu Cys Cys Gly Ala Gly Trp Val Ala Glu Trp Ser Pro Gln
 20 25 30
 Pro Leu Asp Pro Ala Met Leu Leu Trp Met Gln Gly Phe Val Leu Glu
 35 40 45
 Ala Val Ala Cys Gln Asp Asn Asp Asp Tyr Leu Arg Tyr Gly Ile Leu
 50 55 60
 Phe Glu Asp Leu Asp Cys Asn Gly Asp Gly Val Val Asp Ile Ile Glu
 65 70 75 80
 Leu Gln Glu Gly Leu Arg Asn Trp Ser Ser Ala Phe Asp Pro Asn Ser
 85 90 95
 Glu Glu His Gly
 100

<210> 2591
 <211> 123
 <212> PRT
 <213> Homo sapiens

<400> 2591

```

Ser Pro Ala Arg Gly Lys Ser Asn Arg Thr Asp Val Met Ile Thr Ala
 1          5          10          15
Pro Lys Asn Lys Lys Met Thr Glu Asn Leu Ala Ala Pro Glu Ala Leu
          20          25          30
Asp Ser Ser Thr His Ser Ser Ser Thr Ala Thr Gln Ser Arg Ala Lys
          35          40          45
Met Asn Thr Pro Ala Pro Thr Pro Ser Thr Val Pro Ala Ile Pro Arg
          50          55          60
Gly Gly Ser Gly Gly Pro Pro Pro Cys Ala Pro His Asp Arg Val Ser
          65          70          75          80
Ser Val Leu Gln Cys Asp Thr Gln Ala Met Asp His Lys Thr Glu Ser
          85          90          95
Ser His Ser Val Val Glu Phe Leu Phe Lys Arg Thr Lys Thr Pro Ser
          100          105          110
Pro Phe His Pro Ala Val Arg Glu Asn Arg Asn
          115          120          123

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<210> 2592
<211> 195
<212> PRT
<213> Homo sapiens

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```

<400> 2592
Thr Ile Ser Cys Gly Pro Ala Thr Glu Pro Pro Ala Ser Leu Leu Ser
 1          5          10          15
Ser Ala Ser Ser Asp Asp Phe Cys Lys Glu Lys Thr Glu Asp Arg Tyr
          20          25          30
Ser Leu Gly Ser Ser Leu Asp Ser Gly Met Arg Thr Pro Leu Cys Arg
          35          40          45
Ile Cys Phe Gln Gly Pro Glu Gln Gly Glu Leu Leu Ser Pro Cys Arg
          50          55          60
Cys Asp Gly Ser Val Lys Cys Thr His Gln Pro Cys Leu Ile Lys Trp
          65          70          75          80
Ile Ser Glu Arg Gly Cys Trp Ser Cys Glu Leu Cys Tyr Tyr Lys Tyr
          85          90          95
His Val Ile Ala Ile Ser Thr Lys Asn Pro Leu Gln Trp Gln Ala Ile
          100          105          110
Ser Leu Thr Val Ile Glu Lys Val Gln Val Ala Ala Ala Ile Leu Gly
          115          120          125
Ser Leu Phe Leu Ile Ala Ser Ile Ser Trp Leu Ile Trp Ser Thr Phe
          130          135          140
Ser Pro Ser Ala Arg Trp Gln Arg Gln Asp Leu Leu Phe Gln Ile Cys
          145          150          155          160
Tyr Gly Met Tyr Gly Phe Met Asp Val Met Ile Val Ala Val Asp Ser
          165          170          175
Glu Asp Met Val Gln Ala Ala Lys Glu Val Gly Lys Arg Trp Ser Asp
          180          185          190
Ile Pro Pro
          195

```

```

<210> 2593
<211> 71
<212> PRT
<213> Homo sapiens

```

```

<400> 2593
Trp Arg Ile Ser His His Ala Gly Lys Met Pro Val Met Lys Gly Leu
 1          5          10          15

```


Leu Ala Pro Gln Asn Thr Phe Leu Asp Thr Ile Ala Thr Arg Phe Asp
 20 25 30
 Gly Thr His Ser Asn Phe Ile Leu Ala Asn Ala Gln Val Ala Lys Gly
 35 40 45
 Phe Pro Ile Val Tyr Cys Ser Asp Gly Phe Cys Glu Leu Ala Gly Phe
 50 55 60
 Ala Arg Thr Glu Val Met Gln
 65 70 71

<210> 2594
 <211> 178
 <212> PRT
 <213> Homo sapiens

<400> 2594
 Pro Ile Cys Gly Phe Leu Tyr Leu Cys Ser Ala Met Ala Ser Glu Ser
 1 5 10 15
 Ser Pro Leu Leu Ala Tyr Arg Leu Leu Gly Glu Glu Gly Val Ala Leu
 20 25 30
 Pro Ala Asn Gly Ala Gly Gly Pro Gly Gly Ala Ser Ala Arg Lys Leu
 35 40 45
 Ser Thr Phe Leu Gly Val Val Val Pro Thr Val Leu Ser Met Phe Ser
 50 55 60
 Ile Val Val Phe Leu Arg Ile Gly Phe Val Val Gly His Ala Gly Leu
 65 70 75 80
 Leu Gln Ala Leu Ala Met Leu Leu Val Ala Tyr Phe Ile Leu Ala Leu
 85 90 95
 Thr Val Leu Ser Val Cys Ala Ile Ala Thr Asn Gly Ala Val Gln Gly
 100 105 110
 Gly Gly Ala Tyr Cys Ile Leu Gln His Arg Trp Thr Gly Val Trp Pro
 115 120 125
 Val Leu Pro Ala Arg Glu Val Met Ile Ser Arg Thr Leu Gly Pro Glu
 130 135 140
 Val Gly Gly Ser Ile Gly Leu Met Phe Tyr Leu Ala Asn Val Cys Gly
 145 150 155 160
 Cys Ala Val Ser Leu Leu Gly Leu Val Glu Ser Val Leu Asp Val Phe
 165 170 175
 Gly Ala
 178

<210> 2595
 <211> 349
 <212> PRT
 <213> Homo sapiens

<400> 2595
 Lys Ser Lys Cys Arg Phe Pro Glu Gly Leu Ser Glu Gly Phe Gly Pro
 1 5 10 15
 Met Arg Lys Glu Ala Leu Ser Ser Gly Ser Val Gln Glu Ala Glu Ala
 20 25 30
 Met Leu Asp Glu Pro Gln Glu Gln Ala Glu Gly Ser Leu Thr Val Tyr
 35 40 45
 Val Ile Ser Glu His Ser Ser Leu Leu Pro Gln Asp Met Ser Tyr
 50 55 60
 Ile Gly Pro Lys Arg Thr Ala Val Val Arg Gly Ile Met His Arg Glu
 65 70 75 80
 Ala Phe Asn Ile Ile Gly Arg Arg Ile Val Gln Val Ala Gln Ala Met
 85 90 95

```

Ser Leu Thr Glu Asp Val Leu Ala Ala Ala Leu Ala Asp His Leu Pro
      100      105      110
Glu Asp Lys Trp Ser Ala Glu Lys Arg Arg Pro Leu Lys Ser Ser Leu
      115      120      125
Gly Tyr Glu Ile Thr Phe Ser Leu Leu Asn Pro Asp Pro Lys Ser His
      130      135      140
Asp Val Tyr Trp Asp Ile Glu Gly Ala Val Arg Arg Tyr Val Gln Pro
      145      150      155      160
Phe Leu Asn Ala Leu Gly Ala Ala Gly Asn Phe Ser Val Asp Ser Gln
      165      170      175
Ile Leu Tyr Tyr Ala Met Leu Gly Val Asn Pro Arg Phe Asp Ser Ala
      180      185      190
Ser Ser Ser Tyr Tyr Leu Asp Met His Ser Leu Pro His Val Ile Asn
      195      200      205
Pro Val Glu Ser Arg Leu Gly Ser Ser Ala Ala Ser Leu Tyr Pro Val
      210      215      220
Leu Asn Phe Leu Leu Tyr Val Pro Glu Leu Ala His Ser Pro Leu Tyr
      225      230      235      240
Ile Gln Asp Lys Asp Gly Ala Pro Val Ala Thr Asn Ala Phe His Ser
      245      250      255
Pro Arg Trp Gly Gly Ile Met Val Tyr Asn Val Asp Ser Lys Thr Tyr
      260      265      270
Asn Ala Ser Val Leu Pro Val Arg Val Glu Val Asp Met Val Arg Val
      275      280      285
Met Glu Val Phe Leu Ala Gln Leu Arg Leu Leu Phe Gly Ile Ala Gln
      290      295      300
Pro Gln Leu Pro Pro Lys Cys Leu Leu Ser Gly Pro Thr Ser Glu Gly
      305      310      315      320
Leu Met Thr Trp Glu Leu Asp Arg Leu Leu Trp Ala Arg Ser Val Glu
      325      330      335
Asn Leu Ala Thr Ala Thr Thr Thr Leu Thr Ser Leu Ala
      340      345      349

```

<210> 2596
 <211> 117
 <212> PRT
 <213> Homo sapiens

```

<400> 2596
Pro Pro Gln Leu Gly Ala Gln Arg Val Arg Glu Pro Arg His Pro Asp
  1      5      10      15
Val Arg Ala Pro Leu Arg Val Thr Ser Pro Gly Leu Arg Ser Arg Ser
      20      25      30
Ala Arg Ser Leu Gly Arg Arg Pro Arg Ile Ala Met Val Thr Val Gly
      35      40      45
Asn Tyr Cys Glu Ala Glu Gly Pro Val Gly Pro Ala Trp Met Gln Asp
      50      55      60
Gly Leu Ser Pro Cys Phe Phe Phe Thr Leu Val Pro Ser Thr Arg Met
      65      70      75      80
Ala Leu Gly Thr Leu Ala Leu Val Leu Ala Leu Pro Cys Lys Arg Arg
      85      90      95
Glu Arg Pro Ala Gly Ala Asp Ser Leu Ser Trp Gly Ala Gly Pro Arg
      100      105      110
Ile Ser Ser Tyr Val
      115      117

```

<210> 2597
 <211> 108
 <212> PRT

<213> Homo sapiens

<400> 2597

```

Phe Val Arg Asn Lys Lys Met Thr Arg Ser Cys Ser Ala Val Gly Cys
 1           5           10           15
Ser Thr Arg Asp Thr Val Leu Ser Arg Glu Arg Gly Leu Ser Phe His
          20           25           30
Gln Phe Pro Thr Asp Thr Ile Gln Arg Ser Lys Trp Ile Arg Ala Val
          35           40           45
Asn Arg Val Asp Pro Arg Ser Lys Lys Ile Trp Ile Pro Gly Pro Gly
 50           55           60
Ala Ile Leu Cys Ser Lys His Phe Gln Glu Ser Asp Phe Glu Ser Tyr
 65           70           75           80
Gly Ile Arg Arg Lys Leu Lys Lys Gly Ala Val Pro Ser Val Ser Leu
          85           90           95
Tyr Lys Val Phe Lys Tyr Ser Ser Arg Cys Thr Ser
          100           105           108

```

<210> 2598

<211> 129

<212> PRT

<213> Homo sapiens

<400> 2598

```

Arg Val Asp Asp Phe Val Tyr Ser Lys Gly Gly Lys Asp Ala Gly Gly
 1           5           10           15
Ala Asp Val Ser Leu Ala Cys Arg Arg Gln Ser Ile Pro Glu Glu Phe
          20           25           30
Arg Gly Ile Thr Val Val Glu Leu Ile Lys Lys Glu Gly Ser Thr Leu
          35           40           45
Gly Leu Thr Ile Ser Gly Gly Thr Asp Lys Asp Gly Lys Pro Arg Val
          50           55           60
Ser Asn Leu Arg Pro Gly Gly Leu Ala Ala Arg Ser Asp Leu Leu Asn
 65           70           75           80
Ile Gly Asp Tyr Ile Arg Ser Val Asn Gly Ile His Leu Thr Arg Leu
          85           90           95
Arg His Asp Glu Ile Ile Thr Leu Leu Lys Asn Val Gly Glu Arg Val
          100           105           110
Val Leu Glu Val Glu Tyr Glu Leu Pro Pro Pro Gly Gly Cys Pro Trp
          115           120           125
Thr
129

```

<210> 2599

<211> 421

<212> PRT

<213> Homo sapiens

<400> 2599

```

Leu Pro Pro Pro Arg Pro Ser Arg His Arg Arg Gly Arg Ala Gly Thr
 1           5           10           15
Arg Ala Ser Ala Ala Ala Ala Ala Gly Pro Thr Val Ser Ala Val Arg
          20           25           30
Ala Pro Val Arg Gly Gln Asp Ser Gly Ala Gly Thr Pro Gln Gly Arg
          35           40           45
Leu Ala Gly Arg Gly Ala His Leu Ser Arg Val Gly Ala Ser Gly Ser
          50           55           60

```

Gly Val Ala Ala Gly Pro Ala Ala Arg His Ala Pro Arg Arg Arg Cys
 65 70 75 80
 Ala Asp Ala Gly Glu Ala Val Gly Ala Ser Cys Gly Arg Cys Ala Val
 85 90 95
 Ala Leu Leu Ser Gly Val Cys Thr Leu Val Ser Thr His Val Cys Val
 100 105 110
 Gly Ser Gly Cys Pro Gly Ala Ala Gly Thr Pro Met Gly Ala Gly Asp
 115 120 125
 Ala Gly Ala Ser Ala Glu Ser Ala Val Thr Thr Ala Pro Gln Glu Pro
 130 135 140
 Pro Ala Arg Pro Leu Gln Ala Gly Ser Gly Ala Gly Pro Ala Pro Gly
 145 150 155 160
 Arg Ala Met Arg Ser Thr Thr Leu Leu Ala Leu Leu Ala Leu Val Leu
 165 170 175
 Leu Tyr Leu Val Ser Gly Ala Leu Val Phe Arg Ala Leu Glu Gln Pro
 180 185 190
 His Glu Gln Gln Ala Gln Arg Glu Leu Gly Glu Val Arg Glu Lys Phe
 195 200 205
 Leu Arg Ala His Pro Cys Val Ser Asp Gln Glu Leu Gly Leu Leu Ile
 210 215 220
 Lys Glu Val Ala Asp Ala Leu Gly Gly Gly Ala Asp Pro Glu Thr Asn
 225 230 235 240
 Ser Thr Ser Asn Ser Ser His Ser Ala Trp Asp Leu Gly Ser Ala Phe
 245 250 255
 Phe Phe Ser Gly Thr Ile Ile Thr Thr Ile Gly Gly Gly Gly Asp Trp
 260 265 270
 His Val Gly Gly Gly Lys Glu Leu Pro His Gly Gly Arg Cys Arg Glu
 275 280 285
 Thr Glu Gly Ser Gln Val Ala Pro Arg Leu Pro Ala Ser Pro Leu Cys
 290 295 300
 Pro Gly Tyr Gly Asn Val Ala Leu Arg Thr Asp Ala Gly Arg Leu Phe
 305 310 315 320
 Cys Ile Phe Tyr Ala Leu Val Gly Ile Pro Leu Phe Gly Ile Leu Leu
 325 330 335
 Ala Gly Val Gly Asp Arg Leu Gly Ser Ser Leu Arg His Gly Ile Gly
 340 345 350
 His Ile Glu Ala Ile Phe Leu Lys Trp His Val Pro Pro Glu Leu Val
 355 360 365
 Arg Val Leu Ser Ala Met Leu Phe Leu Leu Ile Gly Cys Leu Leu Phe
 370 375 380
 Val Leu Thr Pro Thr Phe Val Phe Cys Tyr Met Glu Asp Trp Ser Lys
 385 390 395 400
 Leu Glu Ala Ile Tyr Phe Val Ile Val Thr Leu Thr Thr Val Gly Phe
 405 410 415
 Gly Asp Tyr Val Ala
 420 421

<210> 2600
 <211> 217
 <212> PRT
 <213> Homo sapiens

<400> 2600
 Phe Val Val Pro Ser Pro Cys Gly Gly Ile Pro Gly Arg Ala Pro Asn
 1 5 10 15
 Gly Ala Ser Arg Pro Thr Met Gly Asn Ser Ala Ser Arg Asn Asp Phe
 20 25 30
 Glu Trp Val Tyr Thr Asp Gln Pro His Thr Gln Arg Arg Lys Glu Ile
 35 40 45
 Leu Ala Lys Tyr Pro Ala Ile Lys Ala Leu Met Arg Pro Asp Pro Arg
 50 55 60

```

Leu Lys Trp Ala Val Leu Val Leu Val Leu Val Gln Met Leu Ala Cys
 65          70          75          80
Trp Leu Val Arg Gly Leu Ala Trp Arg Trp Leu Leu Phe Trp Ala Tyr
      85          90          95
Ala Phe Gly Gly Cys Val Asn His Ser Leu Thr Leu Ala Ile His Asp
      100          105          110
Ile Ser His Asn Ala Ala Phe Gly Thr Gly Arg Ala Ala Arg Asn Arg
      115          120          125
Trp Leu Ala Val Phe Ala Asn Leu Pro Glu Gly Val Pro Tyr Ala Ala
      130          135          140
Ser Phe Lys Lys Tyr His Val Asp His His Arg Tyr Leu Gly Gly Asp
145          150          155          160
Gly Leu Asp Val Asp Val Pro Thr Arg Leu Glu Gly Trp Phe Phe Cys
      165          170          175
Thr Pro Ala Arg Lys Leu Leu Trp Leu Val Leu Gln Pro Phe Phe Tyr
      180          185          190
Ser Leu Arg Pro Leu Cys Val His Pro Lys Ala Val Thr Arg Met Glu
      195          200          205
Val Leu Asn Thr Leu Val Gln Leu Ala
      210          215          217

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<210> 2601
<211> 352
<212> PRT
<213> Homo sapiens

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```

<400> 2601
Pro Val Ile Met Pro Leu His Phe Ser Pro Gly Asp Ile Val Arg Pro
 1          5          10          15
Ser Cys Cys Val Ser Ser Ser Pro Lys Leu Arg Arg Asn Ala His Ser
      20          25          30
Arg Leu Glu Ser Tyr Arg Pro Asp Thr Asp Leu Ser Arg Glu Asp Thr
      35          40          45
Gly Cys Asn Leu Gln His Ile Ser Asp Arg Glu Asn Ile Asp Asp Leu
      50          55          60
Asn Met Glu Phe Asn Pro Ser Asp His Pro Arg Ala Ser Thr Ile Phe
      65          70          75          80
Leu Ser Lys Ser Gln Thr Asp Val Arg Glu Lys Arg Lys Ser Leu Phe
      85          90          95
Ile Asn His His Pro Pro Gly Gln Ile Ala Arg Lys Tyr Ser Ser Cys
      100          105          110
Ser Thr Ile Phe Leu Asp Asp Ser Thr Val Ser Gln Pro Asn Leu Lys
      115          120          125
Tyr Thr Ile Lys Cys Val Ala Leu Ala Ile Tyr Tyr His Ile Lys Asn
      130          135          140
Arg Asp Pro Asp Gly Arg Met Leu Leu Asp Ile Phe Asp Glu Asn Leu
145          150          155          160
His Pro Leu Ser Lys Ser Glu Val Pro Pro Asp Tyr Asp Lys His Asn
      165          170          175
Pro Glu Gln Lys Gln Ile Tyr Arg Phe Val Arg Thr Leu Phe Ser Ala
      180          185          190
Ala Gln Leu Thr Ala Glu Cys Ala Ile Val Thr Leu Val Tyr Leu Glu
      195          200          205
Arg Leu Leu Thr Tyr Ala Glu Ile Asp Ile Cys Pro Ala Asn Trp Lys
      210          215          220
Arg Ile Val Leu Gly Ala Ile Leu Leu Ala Ser Lys Val Trp Asp Asp
225          230          235          240
Gln Ala Val Trp Asn Val Asp Tyr Cys Gln Ile Leu Lys Asp Ile Thr
      245          250          255
Val Glu Asp Met Asn Glu Leu Glu Arg Gln Phe Leu Glu Leu Leu Gln
      260          265          270

```

```

Phe Asn Ile Asn Val Pro Ser Ser Val Tyr Ala Lys Tyr Tyr Phe Asp
    275                280                285
Leu Arg Ser Leu Ala Glu Ala Asn Asn Leu Ser Phe Pro Leu Glu Pro
    290                295                300
Leu Ser Arg Glu Arg Ala His Lys Leu Glu Ala Ile Ser Arg Leu Cys
    305                310                315                320
Glu Asp Lys Tyr Lys Asp Leu Arg Arg Ser Ala Arg Lys Arg Ser Ala
    325                330                335
Ser Ala Asp Asn Leu Thr Leu Pro Arg Trp Ser Pro Ala Ile Ile Ser
    340                345                350                352

```

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<210> 2602
<211> 123
<212> PRT
<213> Homo sapiens

```

```

<400> 2602
Lys Arg Pro Asp Ser Arg Pro Pro Ala Gln Tyr Arg Ala Gly Pro Thr
  1          5          10          15
Arg Pro Arg Thr Arg Gly Cys Glu Leu Leu Tyr Trp Lys Ala Thr Lys
    20          25          30
Ala Val Gly Ile Lys Met Gly Ser Leu Ser Thr Ala Asn Val Glu Phe
    35          40          45
Cys Leu Asp Val Phe Lys Glu Leu Asn Ser Asn Asn Ile Gly Asp Asn
    50          55          60
Ile Phe Phe Ser Ser Leu Ser Leu Leu Tyr Ala Leu Ser Met Val Leu
    65          70          75          80
Leu Gly Ala Arg Gly Glu Thr Glu Glu Gln Leu Glu Lys Val Trp Asn
    85          90          95
Ser Ser Glu Val Cys Ser Glu Pro Arg Ser Leu Ser Cys Ser Arg Ser
    100         105         110
Gly Ser Ala Lys Leu Ile Leu Ser Leu Tyr Gln
    115         120         123

```

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<210> 2603
<211> 69
<212> PRT
<213> Homo sapiens

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```

<400> 2603
Lys Glu Gln Ala Glu Leu Leu Tyr Gly Leu Tyr Cys Gln Cys Asp Leu
  1          5          10          15
Thr Leu Ser Ser His Pro Ser Ser Val Pro Ala Met Ser Ser Cys Asn
    20          25          30
Phe Thr His Ala Thr Phe Val Leu Ile Gly Ile Pro Gly Leu Glu Lys
    35          40          45
Ala His Phe Trp Val Gly Phe Pro Leu Leu Ser Met Tyr Val Ala Ala
    50          55          60
Met Phe Gly Asn Cys
    65          69

```

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<210> 2604
<211> 158
<212> PRT

```

<213> Homo sapiens

<400> 2604

```

Val Ile Ser Phe Gln Ile Ile Thr Asp Thr Ile Met Asp Ser Ser Thr
 1           5           10           15
Ala His Ser Pro Val Phe Leu Val Phe Pro Pro Glu Ile Thr Ala Ser
          20           25           30
Glu Tyr Glu Ser Thr Glu Leu Ser Ala Thr Thr Phe Ser Thr Gln Ser
          35           40           45
Pro Leu Gln Lys Leu Phe Ala Arg Lys Met Lys Ile Leu Gly Thr Ile
          50           55           60
Gln Ile Leu Phe Gly Ile Met Thr Phe Ser Phe Gly Val Ile Phe Leu
          65           70           75           80
Phe Thr Leu Leu Lys Pro Tyr Pro Arg Phe Pro Phe Ile Phe Leu Ser
          85           90           95
Gly Tyr Pro Phe Trp Gly Ser Val Leu Phe Ile Asn Ser Gly Ala Phe
          100          105          110
Leu Ile Ala Val Lys Arg Lys Thr Thr Glu Thr Leu Ile Ile Leu Ser
          115          120          125
Arg Ile Met Asn Phe Leu Ser Ala Leu Gly Ala Ile Ala Gly Ile Ile
          130          135          140
Leu Leu Thr Phe Glu Phe His Pro Arg Ser Lys Leu His Leu
145          150          155          158

```

<210> 2605

<211> 105

<212> PRT

<213> Homo sapiens

<400> 2605

```

Arg Pro Gly Arg Glu Gln Arg Asp Cys Phe Gln Ala Pro Pro Leu Gly
 1           5           10           15
Leu Gly Gly Arg Gln Thr Asp Met Met His His Pro Leu Thr Gly Ala
          20           25           30
Thr Cys Val Gly Leu Pro Asn Val Gly Met Cys Pro Gln Leu Ser Gly
          35           40           45
Ala Leu Thr Phe Met Tyr Leu Gln Gln Gly Asn Gln Glu Ala Thr Val
          50           55           60
Ala Pro Asp Thr Met Ala Gln Pro Tyr Ala Ser Ala Gln Phe Ala Pro
          65           70           75           80
Pro Gln Asn Gly Ile Pro Gly Glu Tyr Thr Ala Pro His Pro His Pro
          85           90           95
Ala Pro Glu Tyr Thr Gly Gln Thr Thr
          100          105

```

<210> 2606

<211> 101

<212> PRT

<213> Homo sapiens

<400> 2606

```

Ser Gly Gly Pro Ala Gly Leu Leu His Arg Pro Val Leu Pro Lys Met
 1           5           10           15
Gly Leu Ser Gly Leu Leu Pro Ile Leu Val Pro Phe Ile Leu Leu Gly
          20           25           30
Asp Ile Gln Glu Pro Gly His Ala Glu Gly Ile Leu Gly Lys Pro Cys
          35           40           45

```

```

Pro Lys Ile Lys Val Glu Cys Glu Val Glu Glu Ile Asp Gln Cys Thr
   50           55           60
Lys Pro Arg Asp Cys Pro Glu Asn Met Lys Cys Cys Pro Phe Ser Arg
   65           70           75           80
Gly Lys Lys Cys Leu Asp Phe Arg Lys Val Ser Leu Thr Leu Tyr His
           85           90           95
Lys Glu Glu Leu Glu
           100 101

```

```

<210> 2607
<211> 28
<212> PRT
<213> Homo sapiens

```

```

<400> 2607
Glu His Leu Lys Ser Thr Pro Asn Arg Leu Gly Val Val Ala His Thr
   1           5           10           15
Cys Asn Pro Ser Thr Leu Gly Gly Arg Gly Gly Trp
           20           25           28

```

```

<210> 2608
<211> 537
<212> PRT
<213> Homo sapiens

```

```

<400> 2608
Ala Gly Pro Gly Val Pro Ala Val Gly Gly Arg Trp Ala Ser Gly Pro
   1           5           10           15
Gly Leu Gly Gly Arg Thr Leu Cys Ser Gly Pro Pro Asp His Gln Arg
           20           25           30
Arg Gly Pro Ser Cys Gly Ala Ser Gly Asp Pro Gln Cys Val Gly Ser
           35           40           45
Pro His Pro Gln Arg Ala Arg Pro Leu Leu Ala Arg Pro Gly Ala Arg
           50           55           60
Leu Leu Pro Gly His Leu Pro Ser Pro Arg Pro Pro Arg Leu Pro Thr
           65           70           75           80
Gly Gln Pro Pro Ala Ala Phe Arg Gly Pro Val Arg Pro Gln Gly
           85           90           95
Gly Gly His Ile His Pro Leu Pro Thr Pro Gly Gly Arg Pro Cys Phe
           100           105           110
Ala Val Ser Glu Gly Ser Gly Ser Ala Leu Leu Leu Ser Tyr Leu Gly
           115           120           125
Glu Cys Gly Ser Ser Ser Tyr Val Thr Gly Ala Ala Cys Ile Ser Pro
           130           135           140
Val Leu Arg Cys Arg Glu Trp Phe Glu Ala Gly Leu Pro Trp Pro Tyr
           145           150           155           160
Glu Arg Gly Phe Leu Leu His Gln Lys Ile Ala Leu Ser Arg Tyr Ala
           165           170           175
Thr Ala Leu Glu Asp Thr Val Asp Thr Ser Arg Leu Phe Arg Ser Arg
           180           185           190
Ser Leu Arg Glu Phe Glu Glu Ala Leu Phe Cys His Thr Lys Ser Phe
           195           200           205
Pro Ile Ser Trp Asp Ala Tyr Trp Asp Arg Asn Asp Pro Leu Arg Asp
           210           215           220
Val Asp Glu Ala Ala Val Pro Val Leu Cys Ile Cys Ser Ala Asp Asp
           225           230           235           240
Pro Val Cys Gly Pro Pro Asp His Thr Leu Thr Thr Glu Leu Phe His
           245           250           255

```


Ser Asn Pro Tyr Phe Phe Leu Leu Leu Ser Arg His Gly Gly His Cys
 260 265 270
 Gly Phe Leu Arg Gln Glu Pro Leu Pro Ala Trp Ser His Glu Val Ile
 275 280 285
 Leu Glu Ser Phe Arg Ala Leu Thr Glu Phe Phe Arg Thr Glu Glu Arg
 290 295 300
 Ile Lys Gly Leu Ser Arg His Arg Ala Ser Phe Leu Gly Gly Arg Arg
 305 310 315 320
 Arg Gly Gly Ala Leu Gln Arg Arg Glu Val Ser Ser Ser Ser Asn Leu
 325 330 335
 Glu Glu Ile Phe Asn Trp Lys Arg Ser Tyr Thr Arg Leu Met Ala Ala
 340 345 350
 Ala Ala Gly Ala Ala Ala Ala Pro Gly Ser Arg Glu Pro Gln Asp Arg
 355 360 365
 Pro Glu Cys Gly Ala Gly His Pro Gly Pro Arg Tyr Tyr Arg His Pro
 370 375 380
 Glu Arg Trp Leu Leu Arg Pro Glu Ala Phe Leu Gly Pro Leu Arg Thr
 385 390 395 400
 Arg Ala Pro Ser Ala Glu Asp Ser Gln Arg Glu Arg Pro Ala Ala Arg
 405 410 415
 Ser Gly Pro Glu Met Arg Val Arg Tyr Pro Val Val Ala Ala Val Leu
 420 425 430
 Ala Pro Tyr Leu Ala Leu Ser Gln Asp Pro Met Val Lys Ser Ser Ala
 435 440 445
 Ser Gly Gln Gly Ala Ser Gly Ser Tyr Asn His Val Arg Glu Glu Met
 450 455 460
 Leu Ile Lys Ala Gly Gly Ala Met Ser Arg Arg Val Val Arg Gln Ser
 465 470 475 480
 Lys Phe Arg His Val Phe Gly Gln Ala Ala Lys Ala Asp Gln Ala Tyr
 485 490 495
 Glu Asp Ile Arg Val Ser Lys Val Thr Trp Asp Ser Ser Phe Cys Ala
 500 505 510
 Val Asn Pro Lys Phe Leu Ala Ile Ile Val Glu Ala Gly Gly Gly Gly
 515 520 525
 Ala Phe Ile Val Leu Pro Leu Ala Lys
 530 535 537

<210> 2609

<211> 81

<212> PRT

<213> Homo sapiens

<400> 2609

Gly Cys Phe Lys Phe Ile Gly Glu Ser Thr Cys Cys Trp Ile Phe Pro
 1 5 10 15
 Ser Ser Val Thr Thr Gln Cys Val Val Ala Lys Ala Pro Arg Ala Ala
 20 25 30
 Thr Leu Ser Lys Ala Glu Arg Leu Arg Ser Gln Pro Gly Pro Glu Gln
 35 40 45
 Gly Gly Ser Ser Tyr Arg Pro Arg Thr Pro Thr Ala Ala Ile Leu
 50 55 60
 Pro Pro Arg Pro Gly Arg Ser His Arg Lys Arg Lys Leu Val Ser Thr
 65 70 75 80
 Lys
 81

<210> 2610

<211> 209

<212> PRT

<213> Homo sapiens

<400> 2610

Gln Arg Ser Cys Leu Cys Ser Ala Ile Glu Lys Asp Gly Gly Asp Val
 1 5 10 15
 Lys Ala Leu Tyr Arg Arg Ser Gln Ala Leu Glu Lys Leu Gly Arg Leu
 20 25 30
 Asp Gln Ala Val Leu Asp Leu Gln Arg Cys Val Ser Leu Glu Pro Lys
 35 40 45
 Asn Lys Val Phe Gln Glu Ala Leu Arg Asn Ile Gly Gly Gln Ile Gln
 50 55 60
 Glu Lys Val Arg Tyr Met Ser Ser Thr Asp Ala Lys Val Glu Gln Met
 65 70 75 80
 Phe Gln Ile Leu Leu Asp Pro Glu Glu Lys Gly Thr Glu Lys Lys Gln
 85 90 95
 Lys Ala Ser Gln Asn Leu Val Val Leu Ala Arg Glu Asp Ala Gly Ala
 100 105 110
 Glu Lys Ile Phe Arg Ser Asn Gly Val Gln Leu Leu Gln Arg Leu Leu
 115 120 125
 Asp Met Gly Glu Thr Asp Leu Met Leu Ala Ala Leu Arg Thr Leu Val
 130 135 140
 Gly Ile Cys Ser Glu His Gln Ser Arg Thr Val Ala Thr Leu Ser Ile
 145 150 155 160
 Leu Gly Thr Arg Arg Val Val Ser Ile Leu Gly Val Glu Ser Gln Ala
 165 170 175
 Val Ser Leu Ala Ala Cys His Leu Leu Gln Val Met Phe Asp Ala Leu
 180 185 190
 Lys Glu Gly Val Lys Lys Gly Phe Arg Gly Lys Glu Gly Ala Ile Ile
 195 200 205
 Val
 209

<210> 2611

<211> 146

<212> PRT

<213> Homo sapiens

<400> 2611

Gly Phe Arg Gly Ala Glu Ala Pro Gly Ala Ala Gln Ala Pro Lys Lys
 1 5 10 15
 Lys Lys Pro Arg Pro Thr Glu Gly Gly Pro Gly Ala Gly Ser Gly Arg
 20 25 30
 Gly Lys Asp Pro Tyr Arg Gly Pro Thr Leu Leu His Gln Pro Lys Pro
 35 40 45
 Pro Lys Asp Glu Phe Leu Ser Ser Leu Glu Ser Tyr Glu Ile Ala Phe
 50 55 60
 Pro Thr Arg Val Asp His Asn Gly Ala Leu Leu Ala Phe Ser Pro Pro
 65 70 75 80
 Pro Pro Gln Arg Gln Arg Arg Gly Thr Gly Ala Thr Ala Glu Ser Arg
 85 90 95
 Leu Phe Tyr Lys Glu Ala Ser Pro Ser Thr His Phe Leu Leu Asn Leu
 100 105 110
 Thr Arg Ser Ser Arg Leu Leu Ala Gly His Val Ser Val Glu Tyr Trp
 115 120 125
 Thr Arg Glu Gly Leu Ala Trp Gln Arg Ala Asp Arg Pro His Cys Leu
 130 135 140
 Tyr Ala
 145 146

<210> 2612
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 2612
 Ala Ala Glu Met Gly Arg Ala Gly Ala Ala Ala Val Ile Pro Gly Leu
 1 5 10 15
 Ala Leu Leu Trp Ala Val Gly Leu Gly Gly Pro Pro Pro Ala Pro Pro
 20 25 30
 Arg Leu Pro Phe Cys Leu Gln Glu Leu Gln Gly Arg His Ala Leu His
 35 40 45
 Thr Phe Ser Leu Glu Arg Thr Cys Ser Tyr Gln Asp Phe Leu Trp Ala
 50 55 60
 Asp Glu Gly Arg Leu Leu His Val Gly Ala Gln Asp Leu Ala Thr Trp
 65 70 75 80
 His Thr Leu Ser Pro Leu Gly Leu Trp
 85 89

<210> 2613
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 2613
 Arg Met Ser Ala Thr Ser Val Asp Gln Arg Pro Lys Gly Gln Gly Asn
 1 5 10 15
 Lys Val Ser Val Gln Asn Gly Ser Ile His Gln Lys Asp Gly Cys Asn
 20 25 30
 Asp Asp Asp Phe Glu Pro Tyr Leu Arg Ser Pro Asp Asn Gln Ser Asn
 35 40 45
 Ser Tyr Pro Pro Met Ser Asp Pro Tyr Met Pro Gly Tyr Tyr Ala Pro
 50 55 60
 Ser Ile Gly Phe Pro Tyr Ser Leu Gly Glu Ala Ala Trp Ser Gln Leu
 65 70 75 80

<210> 2614
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 2614
 Glu Ser Ile Gly Leu Thr Ala Leu Gly Pro Arg Arg Arg Pro Trp Glu
 1 5 10 15
 His Arg Trp Ser Asp Pro Ile Thr Leu Lys Met Lys Gly Trp Gly Trp
 20 25 30
 Leu Ala Leu Leu Gly Ala Leu Leu Gly Thr Ala Trp Ala Arg Arg
 35 40 45
 Ser Gln Asp Leu His Cys Gly Ala Cys Lys Ala Val Arg Arg Arg Val
 50 55 60
 Arg Gln Phe Asn Ile Tyr Asp Tyr
 65 70 72

<210> 2615
 <211> 173
 <212> PRT
 <213> Homo sapiens

<400> 2615
 Phe Val Ala Ser Glu Val Ser Lys Met Pro Val Pro Ala Ser Trp Pro
 1 5 10 15
 His Pro Pro Gly Pro Phe Leu Leu Leu Thr Leu Leu Leu Gly Leu Thr
 20 25 30
 Glu Val Ala Gly Glu Glu Glu Leu Gln Met Ile Gln Pro Glu Lys Leu
 35 40 45
 Leu Leu Val Thr Val Gly Lys Thr Ala Thr Leu His Cys Thr Val Thr
 50 55 60
 Ser Leu Leu Pro Val Gly Pro Val Leu Trp Phe Arg Gly Val Gly Pro
 65 70 75 80
 Gly Arg Glu Leu Ile Tyr Asn Gln Lys Glu Gly His Phe Pro Arg Val
 85 90 95
 Thr Thr Val Ser Asp Leu Thr Lys Arg Asn Asn Met Asp Phe Ser Ile
 100 105 110
 Arg Ile Ser Ser Ile Thr Pro Ala Asp Val Gly Thr Tyr Tyr Cys Val
 115 120 125
 Lys Phe Arg Lys Gly Ser Pro Asp His Val Glu Phe Lys Ser Gly Ala
 130 135 140
 Gly Thr Glu Leu Ser Val Arg Gly Glu Tyr Ser Val Gly Phe Leu Ser
 145 150 155 160
 Gln Val Trp Trp Trp Leu Ser Ser His Pro Phe Met Asn
 165 170 173

<210> 2616
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 2616
 Pro Lys Asn Asn Ala Cys His Leu Leu Phe Thr Ala Val Cys Gln Pro
 1 5 10 15
 Arg Cys Lys His Gly Glu Cys Ile Gly Pro Asn Lys Cys Lys Cys His
 20 25 30
 Pro Gly Tyr Ala Gly Lys Thr Cys Asn Gln Gly Arg Lys Thr Val
 35 40 45 47

<210> 2617
 <211> 223
 <212> PRT
 <213> Homo sapiens

<400> 2617
 Leu Pro Ala Pro Ala Ser Thr Trp Ser Val Ala Arg Glu Thr Met Ala
 1 5 10 15
 Ser Ser Ser Val Pro Pro Ala Thr Val Ser Ala Ala Thr Ala Gly Pro
 20 25 30
 Gly Pro Gly Phe Gly Phe Ala Ser Lys Thr Lys Lys Lys His Phe Val
 35 40 45
 Gln Gln Lys Val Lys Val Phe Arg Ala Ala Asp Pro Leu Val Gly Val
 50 55 60

Phe Leu Trp Gly Val Ala His Ser Ile Asn Glu Leu Ser Gln Val Pro
 65 70 75 80
 Pro Pro Val Met Leu Leu Pro Asp Asp Phe Lys Ala Ser Ser Lys Ile
 85 90 95
 Lys Val Asn Asn His Leu Phe His Arg Glu Asn Leu Pro Ser His Phe
 100 105 110
 Lys Phe Lys Glu Tyr Cys Pro Gln Val Phe Arg Asn Leu Arg Asp Arg
 115 120 125
 Phe Gly Ile Asp Asp Gln Asp Tyr Leu Val Ser Leu Thr Arg Asn Pro
 130 135 140
 Pro Ser Glu Ser Glu Gly Ser Asp Gly Arg Phe Leu Ile Ser Tyr Asp
 145 150 155 160
 Arg Thr Leu Val Ile Lys Glu Val Ser Ser Glu Asp Ile Ala Asp Met
 165 170 175
 His Ser Asn Leu Ser Asn Tyr His Gln Val Arg Pro Leu Ser Ser Pro
 180 185 190
 Ile Leu Ser Leu Ser Ser Leu Leu Thr Tyr Ser Ser Ala Ile Val Ser
 195 200 205
 Asn Arg Cys Gln Leu Gly Arg Lys Leu Ile Gly Arg Glu Asn Pro
 210 215 220 223

<210> 2618
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 2618
 Gly Glu Gly Tyr Glu Leu Phe Val Pro Ser Asn Gly Val Pro Ala Val
 1 5 10 15
 Cys His Met Val Gly Arg Arg Pro His Arg Ala Val Leu Ser Pro Ser
 20 25 30
 Gln Asp Glu Leu Glu His Ser Leu Gly Glu Ser Ala Ala Gln Gly Ala
 35 40 45
 Ala Gly Val Val Leu Trp Val Ser Trp Glu Asn Thr Arg Thr Lys Val
 50 55 60
 Ser Leu Gly Leu Ala
 65 69

<210> 2619
 <211> 147
 <212> PRT
 <213> Homo sapiens

<400> 2619
 Phe Gly Met Leu Lys Asn Lys Gly His Ser Ser Lys Lys Asp Asn Leu
 1 5 10 15
 Ala Val Asn Ala Val Ala Leu Gln Asp His Ile Leu His Asp Leu Gln
 20 25 30
 Leu Arg Asn Leu Ser Val Ala Asp His Ser Lys Thr Gln Val Gln Lys
 35 40 45
 Lys Glu Asn Lys Ser Leu Lys Arg Asp Thr Lys Ala Ile Ile Asp Thr
 50 55 60
 Gly Leu Lys Lys Thr Thr Gln Cys Pro Lys Leu Glu Asp Ser Glu Lys
 65 70 75 80
 Glu Tyr Val Leu Asp Pro Lys Pro Pro Pro Leu Thr Leu Ala Gln Lys
 85 90 95
 Leu Gly Leu Ile Gly Pro Pro Pro Pro Pro Leu Ser Ser Asp Glu Trp
 100 105 110

Glu Lys Val Lys Gln Arg Ser Leu Leu Gln Gly Asp Ser Val Gln Pro
 115 120 125
 Cys Pro Ile Cys Lys Glu Glu Phe Glu Leu Arg Pro Gln Val Phe Ser
 130 135 140
 Ile Arg Gly
 145 147

<210> 2620
 <211> 195
 <212> PRT
 <213> Homo sapiens

<400> 2620
 Arg Val Asp Asp Phe Val Arg Pro Leu Pro Pro Gly Leu Met Ser Arg
 1 5 10 15
 Ser Arg Ala Ser Ile His Arg Gly Ser Ile Pro Ala Met Ser Tyr Ala
 20 25 30
 Pro Phe Arg Asp Val Arg Gly Pro Ser Thr His Arg Thr Gln Tyr Val
 35 40 45
 His Ser Pro Tyr Asp Arg Pro Gly Trp Asn Pro Arg Phe Cys Ile Ile
 50 55 60
 Ser Gly Asn Gln Leu Leu Met Leu Asp Glu Asp Glu Ile His Pro Leu
 65 70 75 80
 Leu Ile Arg Asp Arg Arg Ser Glu Ser Ser Arg Asn Lys Leu Leu Arg
 85 90 95
 Arg Thr Val Ser Val Pro Val Glu Gly Arg Pro His Gly Glu His Glu
 100 105 110
 Tyr His Leu Gly Arg Ser Arg Arg Lys Ser Val Pro Gly Gly Lys Gln
 115 120 125
 Tyr Ser Met Glu Gly Ala Pro Ala Ala Pro Phe Arg Pro Ser Gln Gly
 130 135 140
 Phe Leu Ser Arg Arg Leu Lys Ser Ser Ile Lys Arg Thr Lys Ser Gln
 145 150 155 160
 Pro Lys Leu Asp Arg Thr Ser Ser Phe Arg Gln Ile Leu Pro Arg Phe
 165 170 175
 Arg Ser Ala Asp His Asp Arg Tyr Arg Gly Trp Ser Met Trp Asp Glu
 180 185 190
 Ile Asp Val
 195

<210> 2621
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 2621
 Leu Pro Ala Pro Pro Asn Leu Ser Pro Arg Leu Ser Phe Gly Phe Gln
 1 5 10 15
 Phe Pro Gly Gly Asn Asp Asn Tyr Leu Thr Ile Thr Gly Pro Ser His
 20 25 30
 Pro Phe Leu Ser Gly Ala Glu Val Ser Gln Ser Cys Arg Arg Arg Gly
 35 40 45
 Gly Arg Ala
 50 51

<210> 2622

<211> 127
 <212> PRT
 <213> Homo sapiens

<400> 2622
 Ser Ala Val Thr Ile Ser Trp Lys Trp Arg Ser Val Met Gly Ile Gln
 1 5 10 15
 Thr Ser Pro Ala Leu Leu Ala Ser Leu Gly Ala Gly Leu Val Thr Leu
 20 25 30
 Leu Gly Leu Ala Val Gly Ser Tyr Leu Val Arg Arg Ser Arg Arg Pro
 35 40 45
 Gln Val Thr Leu Leu Asp Pro Asn Glu Lys Asp Leu Leu Arg Leu Ile
 50 55 60
 Asp Lys Thr Leu Ser Ala Arg Ser Pro Cys Lys His Ile Tyr Leu Ser
 65 70 75 80
 Thr Arg Ile Asp Gly Ser Leu Ser Ile Arg Pro Tyr Thr Pro Val Thr
 85 90 95
 Ser Asp Glu Asp Gln Gly Tyr Val Asp Ile Asp Ile Lys Val Tyr Leu
 100 105 110
 Lys Gly Val His Pro Thr Phe Pro Glu Gly Gly Lys Met Ser His
 115 120 125 127

<210> 2623
 <211> 446
 <212> PRT
 <213> Homo sapiens

<400> 2623
 Met Ala Ala Arg Thr Leu Gly Arg Gly Val Gly Arg Leu Leu Gly Ser
 1 5 10 15
 Leu Arg Gly Leu Ser Gly Gln Pro Ala Arg Pro Pro Cys Gly Val Ser
 20 25 30
 Ala Pro Arg Arg Ala Ala Ser Gly Pro Ser Gly Ser Ala Pro Ala Val
 35 40 45
 Ala Ala Ala Ala Ala Gln Pro Gly Ser Tyr Pro Ala Leu Ser Ala Gln
 50 55 60
 Ala Ala Arg Glu Pro Ala Ala Phe Trp Gly Pro Leu Ala Arg Asp Thr
 65 70 75 80
 Leu Val Trp Asp Thr Pro Tyr His Thr Val Trp Asp Cys Asp Phe Ser
 85 90 95
 Thr Gly Lys Ile Gly Trp Phe Leu Gly Gly Gln Leu Asn Val Ser Val
 100 105 110
 Asn Cys Leu Asp Gln His Val Arg Lys Ser Pro Glu Ser Val Ala Leu
 115 120 125
 Ile Trp Glu Arg Asp Glu Pro Gly Thr Glu Val Arg Ile Thr Tyr Arg
 130 135 140
 Glu Leu Leu Glu Thr Thr Cys Arg Leu Ala Asn Thr Leu Lys Arg His
 145 150 155 160
 Gly Val His Arg Gly Asp Arg Val Ala Ile Tyr Met Pro Val Ser Pro
 165 170 175
 Leu Ala Val Ala Ala Met Leu Ala Cys Ala Arg Ile Gly Ala Val His
 180 185 190
 Thr Val Ile Phe Ala Gly Phe Ser Ala Glu Ser Leu Ala Gly Arg Ile
 195 200 205
 Asn Asp Ala Lys Cys Lys Val Val Ile Thr Phe Asn Gln Gly Leu Arg
 210 215 220
 Gly Gly Arg Val Val Glu Leu Lys Lys Ile Val Asp Glu Ala Val Lys
 225 230 235 240
 His Cys Pro Thr Val Gln His Val Leu Val Ala His Arg Thr Asp Asn
 245 250 255

Lys Val His Met Gly Asp Leu Asp Val Pro Leu Glu Gln Glu Met Ala
 260 265 270
 Lys Glu Asp Pro Val Cys Ala Pro Glu Ser Met Gly Ser Glu Asp Met
 275 280 285
 Leu Phe Met Leu Tyr Thr Ser Gly Ser Thr Gly Met Pro Lys Gly Ile
 290 295 300
 Val His Thr Gln Ala Gly Tyr Leu Leu Tyr Ala Ala Leu Thr His Lys
 305 310 315 320
 Leu Val Phe Asp His Gln Pro Gly Asp Ile Phe Gly Cys Val Ala Asp
 325 330 335
 Ile Gly Trp Ile Thr Gly His Ser Tyr Val Val Tyr Gly Pro Leu Cys
 340 345 350
 Asn Gly Ala Thr Ser Val Leu Phe Glu Ser Thr Pro Val Tyr Pro Asn
 355 360 365
 Ala Gly Arg Tyr Trp Glu Thr Val Glu Arg Leu Lys Ile Asn Gln Phe
 370 375 380
 Tyr Gly Ala Pro Thr Ala Val Arg Leu Leu Leu Lys Tyr Gly Asp Ala
 385 390 395 400
 Trp Val Lys Lys Tyr Asp Arg Ser Ser Leu Arg Thr Leu Gly Ser Val
 405 410 415
 Gly Glu Pro Ile Asn Cys Glu Ala Trp Glu Trp Leu His Arg Val Val
 420 425 430
 Gly Asp Ser Arg Cys Thr Leu Val Asp Thr Trp Trp Gln Thr
 435 440 445 446

<210> 2624
 <211> 1250
 <212> PRT
 <213> Homo sapiens

<400> 2624
 Phe Arg Pro Gln Gly Thr Pro Arg Ser Pro Ala Ser His Val Leu Thr
 1 5 10 15
 Met Ser Ala Pro Asp Glu Gly Arg Arg Asp Pro Pro Lys Pro Lys Gly
 20 25 30
 Lys Thr Leu Gly Ser Phe Phe Gly Ser Leu Pro Gly Phe Ser Ser Ala
 35 40 45
 Arg Asn Leu Val Ala Asn Ala His Ser Ser Ala Arg Ala Arg Pro Ala
 50 55 60
 Ala Asp Pro Thr Gly Ala Pro Ala Ala Glu Ala Ala Gln Pro Gln Ala
 65 70 75 80
 Gln Val Ala Ala His Pro Glu Gln Thr Ala Pro Trp Thr Glu Lys Glu
 85 90 95
 Leu Gln Pro Ser Glu Lys Met Val Ser Gly Ala Lys Asp Leu Val Cys
 100 105 110
 Ser Lys Met Ser Arg Ala Lys Asp Ala Val Ser Ser Gly Val Ala Ser
 115 120 125
 Val Val Asp Val Ala Lys Gly Val Val Gln Gly Gly Leu Asp Thr Thr
 130 135 140
 Arg Ser Ala Leu Thr Gly Thr Lys Glu Val Val Ser Ser Gly Val Thr
 145 150 155 160
 Gly Ala Met Asp Met Ala Lys Gly Ala Val Gln Gly Gly Leu Asp Thr
 165 170 175
 Ser Lys Ala Val Leu Thr Gly Thr Lys Asp Thr Val Ser Thr Gly Leu
 180 185 190
 Thr Gly Ala Val Asn Val Ala Lys Gly Thr Val Gln Ala Gly Val Asp
 195 200 205
 Thr Thr Lys Thr Val Leu Thr Gly Thr Lys Asp Thr Val Thr Thr Gly
 210 215 220
 Val Met Gly Ala Val Asn Leu Ala Lys Gly Thr Val Gln Thr Gly Val
 225 230 235 240

Glu Thr Ser Lys Ala Val Leu Thr Gly Thr Lys Asp Ala Val Ser Thr
 245 250 255
 Gly Leu Thr Gly Ala Val Asn Val Ala Arg Gly Ser Ile Gln Thr Gly
 260 265 270
 Val Asp Thr Ser Lys Thr Val Leu Thr Gly Thr Lys Asp Thr Val Cys
 275 280 285
 Ser Gly Val Thr Gly Ala Met Asn Val Ala Lys Gly Thr Ile Gln Thr
 290 295 300
 Gly Val Asp Thr Ser Lys Thr Val Leu Thr Gly Thr Lys Asp Thr Val
 305 310 315 320
 Cys Ser Gly Val Thr Gly Ala Met Asn Val Ala Lys Gly Thr Ile Gln
 325 330 335
 Thr Gly Val Asp Thr Ser Lys Thr Val Leu Thr Gly Thr Lys Asp Thr
 340 345 350
 Val Cys Ser Gly Val Thr Gly Ala Met Asn Val Ala Lys Gly Thr Ile
 355 360 365
 Gln Thr Gly Val Asp Thr Thr Lys Thr Val Leu Thr Gly Thr Lys Asn
 370 375 380
 Thr Val Cys Ser Gly Val Thr Gly Ala Val Asn Leu Ala Lys Glu Ala
 385 390 395 400
 Ile Gln Gly Gly Leu Asp Thr Thr Lys Ser Met Val Met Gly Thr Lys
 405 410 415
 Asp Thr Met Ser Thr Gly Leu Thr Gly Ala Ala Asn Val Ala Lys Gly
 420 425 430
 Ala Met Gln Thr Gly Leu Asn Thr Thr Gln Asn Ile Ala Thr Gly Thr
 435 440 445
 Lys Asp Thr Val Cys Ser Gly Val Thr Gly Ala Met Asn Leu Ala Arg
 450 455 460
 Gly Thr Ile Gln Thr Gly Val Asp Thr Thr Lys Ile Val Leu Thr Gly
 465 470 475 480
 Thr Lys Asp Thr Val Cys Ser Gly Val Thr Gly Ala Ala Asn Val Ala
 485 490 495
 Lys Gly Ala Val Gln Gly Gly Leu Asp Thr Thr Lys Ser Val Leu Thr
 500 505 510
 Gly Thr Lys Asp Ala Val Ser Thr Gly Leu Thr Gly Ala Val Asn Val
 515 520 525
 Ala Lys Gly Thr Val Gln Thr Gly Val Asp Thr Thr Lys Thr Val Leu
 530 535 540
 Thr Gly Thr Lys Asp Thr Val Cys Ser Gly Val Thr Ser Ala Val Asn
 545 550 555 560
 Val Ala Lys Gly Ala Val Gln Gly Gly Leu Asp Thr Thr Lys Ser Val
 565 570 575
 Val Ile Gly Thr Lys Asp Thr Met Ser Thr Gly Leu Thr Gly Ala Ala
 580 585 590
 Asn Val Ala Lys Gly Ala Val Gln Thr Gly Val Asp Thr Ala Lys Thr
 595 600 605
 Val Leu Thr Gly Thr Lys Asp Thr Val Thr Thr Gly Leu Val Gly Ala
 610 615 620
 Val Asn Val Ala Lys Gly Thr Val Gln Thr Gly Met Asp Thr Thr Lys
 625 630 635 640
 Thr Val Leu Thr Gly Thr Lys Asp Thr Ile Tyr Ser Gly Val Thr Ser
 645 650 655
 Ala Val Asn Val Ala Lys Gly Ala Val Gln Thr Gly Leu Lys Thr Thr
 660 665 670
 Gln Asn Ile Ala Thr Gly Thr Lys Asn Thr Phe Gly Ser Gly Val Thr
 675 680 685
 Ser Ala Val Asn Val Ala Lys Gly Ala Ala Gln Thr Gly Val Asp Thr
 690 695 700
 Ala Lys Thr Val Leu Thr Gly Thr Lys Asp Thr Val Thr Thr Gly Leu
 705 710 715 720
 Met Gly Ala Val Asn Val Ala Lys Gly Thr Val Gln Thr Ser Val Asp
 725 730 735
 Thr Thr Lys Thr Val Leu Thr Gly Thr Lys Asp Thr Val Cys Ser Gly
 740 745 750

Val Thr Gly Ala Ala Asn Val Ala Lys Gly Ala Ile Gln Gly Gly Leu
 755 760 765
 Asp Thr Thr Lys Ser Val Leu Thr Gly Thr Lys Asp Ala Val Ser Thr
 770 775 780
 Gly Leu Thr Gly Ala Val Lys Leu Ala Lys Gly Thr Val Gln Thr Gly
 785 790 795 800
 Met Asp Thr Thr Lys Thr Val Leu Thr Gly Thr Lys Asp Ala Val Cys
 805 810 815
 Ser Gly Val Thr Gly Ala Ala Asn Val Ala Lys Gly Ala Val Gln Met
 820 825 830
 Gly Val Asp Thr Ala Lys Thr Val Leu Thr Gly Thr Lys Asp Thr Val
 835 840 845
 Cys Ser Gly Val Thr Gly Ala Ala Asn Val Ala Lys Gly Ala Val Gln
 850 855 860
 Thr Gly Leu Lys Thr Thr Gln Asn Ile Ala Thr Gly Thr Lys Asn Thr
 865 870 875 880
 Leu Gly Ser Gly Val Thr Gly Ala Ala Lys Val Ala Lys Gly Ala Val
 885 890 895
 Gln Gly Gly Leu Asp Thr Thr Lys Ser Val Leu Thr Gly Thr Lys Asp
 900 905 910
 Ala Val Ser Thr Gly Leu Thr Gly Ala Val Asn Leu Ala Lys Gly Thr
 915 920 925
 Val Gln Thr Gly Val Asp Thr Ser Lys Thr Val Leu Thr Gly Thr Lys
 930 935 940
 Asp Thr Val Cys Ser Gly Val Thr Gly Ala Val Asn Val Ala Lys Gly
 945 950 955 960
 Thr Val Gln Thr Gly Val Asp Thr Ala Lys Thr Val Leu Ser Gly Ala
 965 970 975
 Lys Asp Ala Val Thr Thr Gly Val Thr Gly Ala Val Asn Val Ala Lys
 980 985 990
 Gly Thr Val Gln Thr Gly Val Asp Ala Ser Lys Ala Val Leu Met Gly
 995 1000 1005
 Thr Lys Asp Thr Val Phe Ser Gly Val Thr Gly Ala Met Ser Met Ala
 1010 1015 1020
 Lys Gly Ala Val Gln Gly Gly Leu Asp Thr Thr Lys Thr Val Leu Thr
 1025 1030 1035 1040
 Gly Thr Lys Asp Ala Val Ser Ala Gly Leu Met Gly Ser Gly Asn Val
 1045 1050 1055
 Ala Thr Gly Ala Thr His Thr Gly Leu Ser Thr Phe Gln Asn Trp Leu
 1060 1065 1070
 Pro Ser Thr Pro Ala Thr Ser Trp Gly Gly Leu Thr Ser Ser Arg Thr
 1075 1080 1085
 Thr Asp Asn Gly Gly Glu Gln Thr Ala Leu Ser Pro Gln Glu Ala Pro
 1090 1095 1100
 Phe Ser Gly Ile Ser Thr Pro Pro Asp Val Leu Ser Val Gly Pro Glu
 1105 1110 1115 1120
 Pro Ala Trp Glu Ala Ala Ala Thr Thr Lys Gly Leu Ala Thr Asp Val
 1125 1130 1135
 Ala Thr Phe Thr Gln Gly Ala Ala Pro Gly Arg Glu Asp Thr Gly Leu
 1140 1145 1150
 Leu Ala Thr Thr His Gly Pro Glu Glu Ala Pro Arg Leu Ala Met Leu
 1155 1160 1165
 Gln Asn Glu Leu Glu Gly Leu Gly Asp Ile Phe His Pro Met Asn Ala
 1170 1175 1180
 Glu Glu Gln Ala Gln Leu Ala Ala Ser Gln Pro Gly Pro Lys Val Leu
 1185 1190 1195 1200
 Ser Ala Glu Gln Gly Ser Tyr Phe Val Arg Leu Gly Asp Leu Gly Pro
 1205 1210 1215
 Ser Phe Arg Gln Arg Ala Phe Glu His Ala Val Ser His Leu Gln His
 1220 1225 1230
 Gly Gln Phe Gln Ala Arg Asp Thr Leu Ala Gln Leu Gln Asp Cys Phe
 1235 1240 1245
 Arg Leu
 1250

<210> 2625
 <211> 97
 <212> PRT
 <213> Homo sapiens

<400> 2625
 Thr Ile Leu Ala Arg Lys Lys Glu Lys Thr Cys Pro Cys Lys Lys Glu
 1 5 10 15
 Ile Gly Arg Asn Ser Arg Ser Gly Met Tyr Ser Arg Lys Ala Met Tyr
 20 25 30
 Lys Arg Lys Tyr Ser Ala Ala Asn Thr Lys Val Glu Lys Lys Lys Lys
 35 40 45
 Glu Lys Val Leu Ala Pro Val Thr Lys Pro Val Gly Gly Asp Lys Asn
 50 55 60
 Gly Gly Thr Arg Val Val Lys Leu Pro Thr Met Pro Arg Tyr Tyr Pro
 65 70 75 80
 Thr Glu Asp Val Pro Arg Lys Leu Leu Ser His Gly Lys Lys Pro Phe
 85 90 95
 Ser
 97

<210> 2626
 <211> 167
 <212> PRT
 <213> Homo sapiens

<400> 2626
 Gly Gly Ser Leu Arg Phe Ser Pro Pro Arg Val Pro Ser Cys Ser Arg
 1 5 10 15
 Val Phe Cys Pro Val Pro Pro Gly Gly Cys Gly Leu Pro Ser Pro Met
 20 25 30
 Ser Ala Ser Arg Pro Gln Ser Pro Thr Thr Pro Trp Cys Leu Pro Arg
 35 40 45
 Arg Tyr Met Lys His Lys Arg Asp Asp Gly Pro Glu Lys Gln Glu Asp
 50 55 60
 Glu Ala Val Asp Val Thr Pro Val Met Thr Cys Val Phe Val Val Met
 65 70 75 80
 Cys Cys Ser Met Leu Val Leu Leu Tyr Tyr Phe Tyr Asp Leu Leu Val
 85 90 95
 Tyr Val Val Ile Gly Ile Phe Cys Leu Ala Ser Ala Thr Gly Leu Tyr
 100 105 110
 Ser Cys Leu Ala Pro Cys Val Arg Arg Leu Pro Phe Gly Lys Cys Arg
 115 120 125
 Ile Pro Asn Asn Ser Leu Pro Tyr Phe His Lys Arg Pro Gln Ala Arg
 130 135 140
 Met Leu Leu Leu Ala Leu Phe Cys Val Ala Val Ser Val Val Trp Gly
 145 150 155 160
 Val Phe Arg Asn Glu Asp Gln
 165 167

<210> 2627
 <211> 273
 <212> PRT
 <213> Homo sapiens

<400> 2627

Tyr Ser Arg Phe Thr Val Pro Leu Pro Ala Thr Met Ala Ser Ser Glu
 1 5 10 15
 Val Ala Arg His Leu Leu Phe Gln Ser His Met Ala Thr Lys Thr Thr
 20 25 30
 Cys Met Ser Ser Gln Gly Ser Asp Asp Glu Gln Ile Lys Arg Glu Asn
 35 40 45
 Ile Arg Ser Leu Thr Met Ser Gly His Val Gly Phe Glu Ser Leu Pro
 50 55 60
 Asp Gln Leu Val Asn Arg Ser Ile Gln Gln Gly Phe Cys Phe Asn Ile
 65 70 75 80
 Leu Cys Val Gly Glu Thr Gly Ile Gly Lys Ser Thr Leu Ile Asp Thr
 85 90 95
 Leu Phe Asn Thr Asn Phe Glu Asp Tyr Glu Ser Ser His Phe Cys Pro
 100 105 110
 Asn Val Lys Leu Lys Ala Gln Thr Tyr Glu Leu Gln Glu Ser Asn Val
 115 120 125
 Gln Leu Lys Leu Thr Ile Val Asn Thr Val Gly Phe Gly Asp Gln Ile
 130 135 140
 Asn Lys Glu Glu Arg Gln Leu Gly Arg Ser Gln Ser Thr Glu Asn Pro
 145 150 155 160
 Gln Lys Tyr Arg Ser Glu Gln His Pro Val Glu Pro Lys Lys Cys Thr
 165 170 175
 Ser Phe Trp Lys Gly Ala Leu Gly Lys Trp Ala Gly Ile Glu Ser Ser
 180 185 190
 Gly Gln Ser Ala Gln Gln Pro Tyr Leu Pro Ile Asn Ser Pro Pro His
 195 200 205
 Arg Leu Ala Asp Val Ala Asp Val His Leu Phe Ser Ser Val Leu Ser
 210 215 220
 Gly Ala Phe Gly Cys Tyr His Leu Asp Val Thr Val Asn Glu Phe Lys
 225 230 235 240
 Lys Gln Gln Asn Arg Asp Glu Gln Glu Gly Tyr Ser Lys Gly Asp Gln
 245 250 255
 Glu Gln Gly Ser Trp Lys His Gly Ala Asp Pro Leu Arg Gly Gly Glu
 260 265 270
 Met
 273

<210> 2628

<211> 151

<212> PRT

<213> Homo sapiens

<400> 2628

Arg Ala Phe Asp Val Arg Arg Lys Lys Ser Leu Arg Pro Cys Cys Pro
 1 5 10 15
 Arg Asp Phe His Ala Gly Cys Leu Thr Val Ser Gly Pro Ser Thr Val
 20 25 30
 Met Gly Ala Val Gly Glu Ser Leu Ser Val Gln Cys Arg Tyr Glu Glu
 35 40 45
 Lys Tyr Lys Thr Phe Asn Lys Tyr Trp Cys Arg Gln Pro Cys Leu Pro
 50 55 60
 Ile Trp His Glu Met Val Glu Thr Gly Gly Ser Glu Gly Val Val Arg
 65 70 75 80
 Ser Asp Gln Val Ile Ile Thr Asp His Pro Gly Asp Leu Thr Phe Thr
 85 90 95
 Val Thr Leu Glu Asn Leu Thr Ala Asp Asp Ala Gly Lys Tyr Arg Cys
 100 105 110
 Gly Ile Ala Thr Ile Leu Gln Glu Asp Gly Leu Ser Gly Phe Leu Pro
 115 120 125

Asp Pro Phe Phe Gln Val Gln Val Leu Val Ser Ser Ala Ser Ser Thr
 130 135 140
 Glu Asn Ser Val Lys Thr Pro
 145 150 151

<210> 2629
 <211> 74
 <212> PRT
 <213> Homo sapiens

<400> 2629
 Asn Asp Ser Leu Val Pro Met Ser Ser Trp Arg Ser Cys Ala Arg Ala
 1 5 10 15
 Pro Ser Ser Glu Ser Ala Trp Arg Arg Ser Ala Ala Thr Arg Arg Ser
 20 25 30
 Arg Lys Cys Leu Arg Thr Lys Arg Lys Arg Trp Ser Ser Gly Lys Gly
 35 40 45
 Thr Gln Met Gln Ser Thr Leu Ser Glu Thr Pro Arg Arg Ala Gln Met
 50 55 60
 Pro Cys Met Trp Trp Tyr Pro Phe Trp Gly
 65 70 74

<210> 2630
 <211> 114
 <212> PRT
 <213> Homo sapiens

<400> 2630
 Arg Ala Thr Trp His Asn Ala Gly Lys Glu Arg Glu Ala Val Gln Leu
 1 5 10 15
 Met Ala Gly Ala Glu Lys Arg Val Lys Ala Ser His Ser Phe Leu Arg
 20 25 30
 Gly Leu Phe Gly Gly Asn Thr Arg Ile Glu Glu Ala Cys Glu Met Tyr
 35 40 45
 Thr Arg Ala Ala Asn Met Phe Lys Met Ala Lys Asn Trp Ser Ala Ala
 50 55 60
 Gly Asn Ala Phe Cys Gln Ala Ala Lys Leu His Met Gln Leu Gln Ser
 65 70 75 80
 Lys His Asp Ser Ala Thr Ser Phe Val Asp Ala Gly Asn Ala Tyr Lys
 85 90 95
 Lys Ala Asp Pro Gln Gly Lys Thr Ala Arg His Val Ala Cys Tyr Leu
 100 105 110
 Cys Val
 114

<210> 2631
 <211> 66
 <212> PRT
 <213> Homo sapiens

<400> 2631
 Val Ile Tyr Lys Leu Asp Ser Ser Leu Phe Ser Tyr Phe Ile Tyr Phe
 1 5 10 15
 Phe Ile Phe Glu Thr Glu Ser His Phe Leu Pro Leu Met Lys Trp Thr
 20 25 30

Gly Pro Ile Met Ala His Cys Ser Leu Lys Ile Leu Ala Ser Arg Asn
 35 40 45
 Ser Ala Asp Ser Ala Phe Leu Ser Ala Gly Asp Thr Ser Leu Ser His
 50 55 60
 Ser Thr
 65 66

<210> 2632
 <211> 546
 <212> PRT
 <213> Homo sapiens

<400> 2632
 Ser Ala Ser Ile Ile Ile Arg Gly Asp Lys Arg Ala Ser Gly Glu Val
 1 5 10 15
 Gly Ile Ala Pro Ser Ser Arg His Ile Leu Ile Gly Glu Pro Ser Ala
 20 25 30
 Lys Tyr Asn Gly Thr Ala Ile Ile Ser Leu Val Arg Gly Pro Gly Ile
 35 40 45
 Leu Gly Glu Val Thr Val Phe Trp Arg Ile Phe Pro Pro Ser Val Gly
 50 55 60
 Glu Phe Ala Glu Thr Ser Gly Lys Leu Thr Met Arg Asp Glu Gln Ser
 65 70 75 80
 Ala Val Ile Val Val Ile Gln Ala Leu Asn Asp Asp Ile Pro Glu Glu
 85 90 95
 Lys Ser Phe Tyr Glu Phe Gln Leu Thr Ala Val Ser Glu Gly Gly Val
 100 105 110
 Leu Ser Glu Ser Ser Ser Thr Ala Asn Ile Thr Val Val Ala Ser Asp
 115 120 125
 Ser Pro Tyr Gly Arg Phe Ala Phe Ser His Glu Gln Leu Arg Val Ser
 130 135 140
 Glu Ala Gln Arg Val Asn Ile Thr Ile Ile Arg Ser Ser Gly Asp Phe
 145 150 155 160
 Gly His Val Arg Leu Trp Tyr Lys Thr Met Ser Gly Thr Ala Glu Ala
 165 170 175
 Gly Leu Asp Phe Val Pro Ala Ala Gly Glu Leu Leu Phe Glu Ala Gly
 180 185 190
 Glu Met Arg Lys Ser Leu His Val Glu Ile Leu Asp Asp Asp Tyr Pro
 195 200 205
 Glu Gly Pro Glu Glu Phe Ser Leu Thr Ile Thr Lys Val Glu Leu Gln
 210 215 220
 Gly Arg Gly Tyr Asp Phe Thr Ile Gln Glu Asn Gly Leu Gln Ile Asp
 225 230 235 240
 Gln Pro Pro Glu Ile Gly Asn Ile Ser Ile Val Arg Ile Ile Ile Met
 245 250 255
 Lys Asn Asp Asn Ala Glu Gly Ile Ile Glu Phe Asp Pro Lys Tyr Thr
 260 265 270
 Ala Phe Glu Val Glu Glu Asp Val Gly Leu Ile Met Ile Pro Val Val
 275 280 285
 Arg Leu His Gly Thr Tyr Gly Tyr Val Thr Ala Asp Phe Ile Ser Gln
 290 295 300
 Ser Ser Ser Ala Ser Pro Gly Gly Val Asp Tyr Ile Leu His Gly Ser
 305 310 315 320
 Thr Val Thr Phe Gln His Gly Gln Asn Leu Ser Phe Ile Asn Ile Ser
 325 330 335
 Ile Ile Asp Asp Asn Glu Ser Glu Phe Glu Glu Pro Ile Glu Ile Leu
 340 345 350
 Leu Thr Gly Ala Thr Gly Gly Ala Val Leu Gly Arg His Leu Val Ser
 355 360 365
 Arg Ile Ile Ile Ala Lys Ser Asp Ser Pro Phe Gly Val Ile Arg Phe
 370 375 380

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Leu Asn Gln Ser Lys Ile Ser Ile Ala Asn Pro Asn Ser Thr Met Ile
385          390          395          400
Leu Ser Leu Val Leu Glu Arg Thr Gly Gly Leu Leu Gly Glu Ile Gln
          405          410          415
Val Asn Trp Glu Thr Val Gly Pro Asn Ser Gln Glu Ala Leu Leu Pro
          420          425          430
Gln Asn Arg Asp Ile Ala Asp Pro Val Ser Gly Leu Phe Tyr Phe Gly
          435          440          445
Glu Gly Glu Gly Gly Val Arg Thr Ile Ile Leu Thr Ile Tyr Pro His
          450          455          460
Glu Glu Ile Glu Val Glu Glu Thr Phe Ile Ile Lys Leu His Leu Val
465          470          475          480
Lys Gly Glu Ala Lys Leu Asp Ser Arg Ala Lys Asp Val Thr Leu Thr
          485          490          495
Ile Gln Glu Phe Gly Asp Pro Asn Gly Val Val Gln Phe Ala Pro Glu
          500          505          510
Thr Leu Ser Lys Lys Thr Tyr Ser Glu Pro Leu Ala Leu Glu Gly Pro
          515          520          525
Leu Leu Ile Thr Phe Phe Val Arg Arg Val Lys Gly Thr Phe Gly Glu
530          535          540
Ile Met
545 546

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<210> 2633
<211> 67
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(67)
<223> Xaa = any amino acid or nothing

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<400> 2633
Met Gly Ser Lys Thr Leu Pro Ala Pro Val Pro Ile His Pro Ser Leu
1          5          10          15
Gln Leu Thr Asn Tyr Ser Phe Leu Gln Ala Val Asn Gly Leu Pro Thr
          20          25          30
Val Pro Ser Asp His Leu Pro Asn Leu Tyr Gly Phe Ser Ala Leu His
          35          40          45
Ala Val His Leu His Gln Trp Thr Leu Gly Tyr Pro Ala Met His Leu
50          55          60
Xaa Arg Ser
65          67

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<210> 2634
<211> 189
<212> PRT
<213> Homo sapiens

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<400> 2634
Phe Val Ser Pro Ser Arg Ala Met Ala Ser Ala Leu Ile Tyr Val Ser
1          5          10          15
Lys Phe Lys Ser Phe Val Ile Leu Val Val Thr Pro Leu Leu Leu Leu
          20          25          30
Pro Leu Val Ile Leu Met Pro Ala Lys Phe Val Arg Cys Ala Tyr Val
          35          40          45
Ile Ile Leu Met Ala Ile Tyr Trp Cys Thr Glu Val Ile Pro Leu Ala
50          55          60

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Val Thr Ser Leu Met Pro Val Leu Leu Phe Pro Leu Phe Gln Ile Leu
 65 70 75 80
 Asp Ser Arg Gln Val Cys Val Gln Tyr Met Lys Asp Thr Asn Met Leu
 85 90 95
 Phe Leu Gly Gly Leu Ile Val Ala Val Ala Val Glu Arg Trp Asn Leu
 100 105 110
 His Lys Arg Ile Ala Leu Arg Thr Leu Leu Trp Val Gly Ala Lys Pro
 115 120 125
 Ala Arg Leu Met Leu Gly Phe Met Gly Val Thr Ala Leu Leu Ser Met
 130 135 140
 Trp Ile Ser Asn Thr Ala Thr Thr Ala Met Met Val Pro Ile Val Glu
 145 150 155 160
 Ala Ile Leu Gln Gln Met Glu Ala Thr Ser Ala Ala Thr Glu Ala Gly
 165 170 175
 Leu Glu Leu Val Asp Lys Gly Lys Ala Lys Glu Leu Pro
 180 185 189

<210> 2635

<211> 146

<212> PRT

<213> Homo sapiens

<400> 2635

Lys Gln Ser Thr Arg Pro Asp Val Met Thr Leu Tyr Pro Leu His Trp
 1 5 10 15
 Gln Glu Glu Met Ser Gly Glu Ser Val Val Ser Ser Ala Val Pro Ala
 20 25 30
 Ala Ala Thr Arg Thr Thr Ser Phe Lys Gly Thr Ser Pro Ser Ser Lys
 35 40 45
 Tyr Val Lys Leu Asn Val Gly Gly Ala Leu Tyr Tyr Thr Thr Met Gln
 50 55 60
 Thr Leu Thr Lys Gln Asp Thr Met Leu Lys Ala Met Phe Ser Gly Arg
 65 70 75 80
 Met Glu Val Leu Thr Asp Ser Glu Gly Trp Ile Leu Ile Asp Arg Cys
 85 90 95
 Gly Lys His Phe Gly Thr Ile Leu Asn Tyr Leu Arg Asp Gly Ala Val
 100 105 110
 Pro Leu Pro Glu Ser Arg Arg Glu Ile Glu Glu Leu Leu Ala Glu Ala
 115 120 125
 Lys Tyr Tyr Leu Val Gln Gly Leu Val Glu Glu Cys Gln Ala Ala Leu
 130 135 140
 Gln Val
 145 146

<210> 2636

<211> 191

<212> PRT

<213> Homo sapiens

<400> 2636

Arg Pro Arg Gly Arg Gly Ala Trp Ala Gly Pro Gly Gly Asp Tyr Ser
 1 5 10 15
 Gly Val Arg Arg Gln Gln Arg Arg Arg Thr Arg Ile Ser Gly Ser Gln
 20 25 30
 Arg Gly Ser Asp Ala Ala Gly Thr Met Gly Cys Cys Thr Gly Arg Cys
 35 40 45
 Ser Leu Ile Cys Leu Cys Ala Leu Gln Leu Val Ser Ala Leu Glu Arg
 50 55 60

Gln Ile Phe Asp Phe Leu Gly Phe Gln Trp Ala Pro Ile Leu Gly Asn
 65 70 75 80
 Phe Leu His Ile Ile Val Val Ile Leu Gly Leu Phe Gly Thr Ile Gln
 85 90 95
 Tyr Arg Pro Arg Tyr Ile Met Val Tyr Thr Val Trp Thr Ala Leu Trp
 100 105 110
 Val Thr Trp Asn Val Phe Ile Ile Cys Phe Tyr Leu Glu Val Gly Gly
 115 120 125
 Leu Ser Lys Asp Thr Asp Leu Met Thr Phe Asn Ile Ser Val His Arg
 130 135 140
 Ser Trp Trp Arg Glu His Gly Pro Gly Cys Val Arg Arg Val Leu Pro
 145 150 155 160
 Pro Ser Ala His Gly Met Met Asp Asp Tyr Thr Tyr Val Ser Val Thr
 165 170 175
 Gly Cys Ile Val Asp Phe Gln Tyr Leu Glu Val Ile His Ser Ala
 180 185 190 191

<210> 2637

<211> 41

<212> PRT

<213> Homo sapiens

<400> 2637

Arg Ser Arg Met Gly Asp Lys Pro Ile Trp Glu Gln Ile Gly Ser Ser
 1 5 10 15
 Phe Ile Gln His Tyr Tyr Gln Leu Phe Asp Asn Asp Arg Thr Gln Leu
 20 25 30
 Gly Ala Ile Tyr Val Ser Phe Gln Leu
 35 40 41

<210> 2638

<211> 159

<212> PRT

<213> Homo sapiens

<400> 2638

Met Glu Glu Glu Asp Glu Ser Arg Gly Lys Thr Glu Glu Ser Gly Glu
 1 5 10 15
 Asp Arg Gly Asp Gly Pro Pro Asp Arg Asp Pro Thr Leu Ser Pro Ser
 20 25 30
 Ala Phe Ile Leu Arg Ala Ile Gln Gln Ala Val Gly Ser Ser Leu Gln
 35 40 45
 Gly Asp Leu Pro Asn Asp Lys Asp Gly Ser Arg Cys His Gly Leu Arg
 50 55 60
 Trp Arg Arg Cys Arg Ser Pro Arg Ser Glu Pro Arg Ser Gln Glu Ser
 65 70 75 80
 Gly Gly Thr Asp Thr Ala Thr Val Leu Asp Met Ala Thr Asp Ser Phe
 85 90 95
 Leu Ala Gly Leu Val Ser Val Leu Asp Pro Pro Asp Thr Trp Val Pro
 100 105 110
 Ser Arg Leu Asp Leu Arg Pro Gly Glu Ser Glu Asp Met Leu Glu Leu
 115 120 125
 Val Ala Glu Val Arg Ile Gly Asp Arg Asp Pro Ile Pro Leu Pro Val
 130 135 140
 Pro Ser Leu Leu Pro Arg Leu Arg Ala Trp Arg Thr Gly Lys Thr
 145 150 155 159

<210> 2639
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 2639
 Leu Leu Ser Arg Met Pro Ser Thr Asn Arg Ala Gly Ser Leu Lys Asp
 1 5 10 15
 Pro Glu Ile Ala Glu Leu Phe Phe Lys Glu Asp Pro Glu Lys Leu Phe
 20 25 30
 Thr Asp Leu Arg Glu Ile Gly His Gly Ser Phe Gly Ala Ala Tyr Phe
 35 40 45
 Ala Arg Asp Val Arg Thr Asn Glu Val Val Ala Ile Lys Lys Met Ser
 50 55 60
 Tyr Ser Gly
 65 67

<210> 2640
 <211> 163
 <212> PRT
 <213> Homo sapiens

<400> 2640
 Arg Gly Ala Lys Ala Lys Ser Ala Val Leu Pro Pro Gly Pro Pro Cys
 1 5 10 15
 Ser Ser Ile Leu Ile Leu Ser Pro Pro Ala Pro Leu Thr Pro Arg Ser
 20 25 30
 Pro Gly Thr Glu Ala Thr Arg Pro Thr Ala Met Ser Lys Ser Leu Lys
 35 40 45
 Lys Lys Ser His Trp Thr Ser Lys Val His Glu Ser Val Ile Gly Arg
 50 55 60
 Asn Pro Glu Gly Gln Leu Gly Phe Glu Leu Lys Gly Gly Ala Glu Asn
 65 70 75 80
 Gly Gln Phe Pro Tyr Leu Gly Glu Val Lys Pro Gly Lys Val Ala Tyr
 85 90 95
 Glu Ser Gly Ser Lys Leu Val Ser Glu Glu Leu Leu Leu Glu Val Asn
 100 105 110
 Glu Thr Pro Val Ala Gly Leu Thr Ile Arg Asp Val Leu Ala Val Ile
 115 120 125
 Lys His Cys Lys Asp Pro Leu Arg Leu Lys Cys Val Lys Gln Gly Glu
 130 135 140
 Ser Ser Gly Leu Leu Ser Val Leu Pro Gly Gly Gly Thr Ala Arg Gly
 145 150 155 160
 Ala Gly Gln
 163

<210> 2641
 <211> 154
 <212> PRT
 <213> Homo sapiens

<400> 2641
 Arg Thr Ile Arg Glu Thr Glu Arg Arg Ser Ala Leu Ser Cys Ser Val
 1 5 10 15
 Leu Lys Ser Glu Pro Leu Pro Gly Leu Gln Pro Gln Ala Ser Gln Gln
 20 25 30

```

Arg Arg Arg Arg Leu Pro Gly Arg Arg Gln Val Gln Val Gln Glu Gly
      35              40              45
Gly Gly Ser Gly Leu Arg Ala Trp Val Leu Ala Met Ala Ser Val Leu
      50              55              60
Gly Ser Gly Arg Gly Ser Gly Gly Leu Ser Ser Gln Leu Lys Cys Lys
      65              70              75              80
Ser Lys Arg Arg Arg Arg Arg Ser Lys Arg Lys Asp Lys Val Ser
      85              90              95
Ile Leu Ser Thr Phe Leu Ala Pro Phe Lys His Leu Ser Pro Gly Ile
      100             105             110
Thr Asn Thr Glu Asp Asp Asp Thr Leu Ser Thr Ser Ser Ala Glu Val
      115             120             125
Lys Glu Asn Arg Asn Val Gly Asn Leu Ala Ala Arg Pro Pro Pro Ser
      130             135             140
Gly Asp Arg Ala Arg Gly Gly Ala Thr Arg
145              150              154

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<210> 2642
<211> 249
<212> PRT
<213> Homo sapiens

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<400> 2642
Gln Arg Arg Arg Phe Arg Ala Gly Leu Trp Gly Gly His Gly Leu Thr
 1      5              10              15
Asp Gly Leu Arg Arg Asn Gly Gly Cys Gly Cys Ser Ala Arg Val Pro
      20              25              30
Arg Val Gly Glu Arg Leu Arg Gly His Arg Cys Pro Asp Pro Leu Cys
      35              40              45
Leu Leu Leu Asp Met Leu Phe Leu Ser Phe His Ala Gly Ser Trp Glu
      50              55              60
Ser Trp Cys Cys Cys Cys Leu Ile Pro Ala Asp Arg Pro Trp Asp Arg
      65              70              75              80
Gly Gln His Trp Gln Leu Glu Met Ala Asp Thr Arg Ser Val His Glu
      85              90              95
Thr Arg Phe Glu Ala Ala Val Lys Val Ile Gln Ser Leu Pro Lys Asn
      100             105             110
Gly Ser Phe Gln Pro Thr Asn Glu Met Met Leu Lys Phe Tyr Ser Phe
      115             120             125
Tyr Lys Gln Ala Thr Glu Gly Pro Cys Lys Leu Ser Arg Pro Gly Phe
      130             135             140
Trp Asp Pro Ile Gly Arg Tyr Lys Trp Asp Ala Trp Ser Ser Leu Gly
145             150             155             160
Asp Met Thr Lys Glu Glu Ala Met Ile Ala Tyr Val Glu Glu Met Lys
      165             170             175
Lys Ile Ile Glu Thr Met Pro Met Thr Glu Lys Val Glu Glu Leu Leu
      180             185             190
Arg Val Ile Gly Pro Phe Tyr Glu Ile Val Glu Asp Lys Lys Ser Gly
      195             200             205
Arg Ser Ser Asp Ile Thr Ser Asp Leu Gly Asn Val Leu Thr Ser Thr
      210             215             220
Pro Asn Ala Lys Thr Val Asn Gly Lys Ala Glu Ser Ser Asp Ser Gly
225             230             235             240
Ala Glu Ser Glu Glu Glu Glu Ala Cys
      245              249

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<210> 2643
<211> 329
<212> PRT

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<213> Homo sapiens

<400> 2643

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Pro Leu Met Ser Leu Val Arg Val Val Glu Phe Val Ala Ala Ser Ser
 1           5           10           15
Ala Gln Lys Thr Pro Ser Arg Leu Glu Asn Tyr Tyr Met Val Cys Lys
 20           25           30
Ala Asp Glu Lys Phe Asn Gln Leu Val His Phe Leu Arg Asn His Lys
 35           40           45
Gln Glu Lys His Leu Val Phe Phe Arg Tyr Ser Ser Gly Leu Cys Gly
 50           55           60
Arg Gly Ile Arg Asp Ser Ala Arg Met Cys Ser Thr Cys Ala Cys Val
 65           70           75           80
Glu Tyr Tyr Gly Lys Ala Leu Glu Val Leu Val Lys Gly Val Lys Ile
 85           90           95
Met Cys Ile His Gly Lys Met Lys Tyr Lys Arg Asn Lys Ile Phe Met
 100          105          110
Glu Phe Arg Lys Leu Gln Ser Gly Ile Leu Val Cys Thr Asp Val Met
 115          120          125
Ala Arg Gly Ile Asp Ile Pro Glu Val Asn Trp Val Leu Gln Tyr Asp
 130          135          140
Pro Pro Ser Asn Ala Ser Ala Phe Val His Arg Cys Gly Arg Thr Ala
 145          150          155          160
Arg Ile Gly His Gly Gly Ser Ala Leu Val Phe Leu Leu Pro Met Glu
 165          170          175
Glu Ser Tyr Ile Asn Phe Leu Ala Ile Asn Gln Lys Cys Pro Leu Gln
 180          185          190
Glu Met Lys Pro Gln Arg Asn Thr Ala Asp Leu Leu Pro Lys Leu Lys
 195          200          205
Ser Met Ala Leu Ala Asp Arg Ala Val Phe Glu Lys Gly Met Lys Ala
 210          215          220
Phe Val Ser Tyr Val Gln Ala Tyr Ala Lys His Glu Cys Asn Leu Ile
 225          230          235          240
Phe Arg Leu Lys Asp Leu Asp Phe Ala Ser Leu Ala Arg Gly Phe Ala
 245          250          255
Leu Leu Arg Met Pro Lys Met Pro Glu Leu Arg Gly Lys Gln Phe Pro
 260          265          270
Asp Phe Val Pro Val Asp Val Asn Thr Asp Thr Ile Pro Phe Lys Asp
 275          280          285
Lys Ile Arg Glu Lys Gln Arg Gln Lys Leu Leu Glu Gln Gln Arg Arg
 290          295          300
Glu Lys Thr Glu Asn Glu Gly Arg Arg Lys Phe Ile Lys Asn Lys Ala
 305          310          315          320
Trp Ser Lys Gln Lys Ala Lys Lys Lys
 325          329

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<210> 2644

<211> 317

<212> PRT

<213> Homo sapiens

<400> 2644

```

Val Thr Met Tyr Lys Asp Cys Ile Glu Ser Thr Gly Asp Tyr Phe Leu
 1           5           10           15
Leu Cys Asp Ala Glu Gly Pro Trp Gly Ile Ile Leu Glu Ser Leu Ala
 20           25           30
Ile Leu Gly Ile Val Val Thr Ile Leu Leu Leu Ala Phe Leu Phe
 35           40           45
Leu Met Arg Lys Ile Gln Asp Cys Ser Gln Trp Asn Val Leu Pro Thr
 50           55           60

```

Gln Leu Leu Phe Leu Leu Ser Val Leu Gly Leu Phe Gly Leu Ala Phe
 65 70 75 80
 Ala Phe Ile Ile Glu Leu Asn Gln Gln Thr Ala Pro Val Arg Tyr Phe
 85 90 95
 Leu Phe Gly Val Leu Phe Ala Leu Cys Phe Ser Cys Leu Leu Ala His
 100 105 110
 Ala Ser Asn Leu Val Lys Leu Val Arg Gly Cys Val Ser Phe Ser Trp
 115 120 125
 Thr Thr Ile Leu Cys Ile Ala Ile Gly Cys Ser Leu Leu Gln Ile Ile
 130 135 140
 Ile Ala Thr Glu Tyr Val Thr Leu Ile Met Thr Arg Gly Met Met Phe
 145 150 155 160
 Val Asn Met Thr Pro Cys Gln Leu Asn Val Asp Phe Val Val Leu Leu
 165 170 175
 Val Tyr Val Leu Phe Leu Met Ala Leu Thr Phe Phe Val Ser Lys Ala
 180 185 190
 Thr Phe Cys Gly Pro Cys Glu Asn Trp Lys Gln His Gly Arg Leu Ile
 195 200 205
 Phe Ile Thr Val Leu Phe Ser Ile Ile Ile Trp Val Val Trp Ile Ser
 210 215 220
 Met Leu Leu Arg Gly Asn Pro Gln Phe Gln Arg Gln Pro Gln Trp Asp
 225 230 235 240
 Asp Pro Val Val Cys Ile Ala Leu Val Thr Asn Ala Trp Val Phe Leu
 245 250 255
 Leu Leu Tyr Ile Val Pro Glu Leu Cys Ile Leu Tyr Arg Ser Cys Arg
 260 265 270
 Gln Glu Cys Pro Leu Gln Gly Asn Ala Cys Pro Val Thr Ala Tyr Gln
 275 280 285
 His Ser Phe Gln Val Glu Asn Gln Glu Leu Ser Arg Asp Lys Trp Lys
 290 295 300
 Val Leu Leu Asn Ser Asp Phe Leu Ser His Ser Gly Ala
 305 310 315 317

<210> 2645

<211> 47

<212> PRT

<213> Homo sapiens

<400> 2645

Arg Pro Arg Val Thr His Asn Ser Gln Trp Cys Phe Leu Pro Gln
 1 5 10 15
 Asp His Pro Gly Trp Leu Pro Gly Gln Ser Gly Ala Pro Gly Gly Arg
 20 25 30
 Gly Ala Pro Arg Gln Glu Gly Pro Gly Ser Ser Trp Arg Gln Val
 35 40 45 47

<210> 2646

<211> 183

<212> PRT

<213> Homo sapiens

<400> 2646

Glu Trp Ser Leu Asp Pro Phe Met Gly Ile Met Ser Gly Gln Val Gly
 1 5 10 15
 Asp Leu Ser Pro Ser Gln Glu Lys Ser Leu Ala Gln Phe Arg Glu Asn
 20 25 30
 Ile Gln Asp Val Leu Ser Ala Leu Pro Asn Pro Asp Asp Tyr Phe Leu
 35 40 45

```

Leu Arg Trp Leu Gln Ala Arg Ser Phe Asp Leu Gln Lys Ser Glu Asp
 50          55          60
Met Leu Arg Lys His Met Glu Phe Arg Lys Gln Gln Asp Leu Ala Asn
 65          70          75          80
Ile Leu Ala Trp Gln Pro Pro Glu Val Val Arg Leu Tyr Asn Ala Asn
      85          90          95
Gly Ile Cys Gly His Asp Gly Glu Gly Ser Pro Val Trp Tyr His Ile
      100          105          110
Val Gly Ser Gln Asp Pro Lys Gly Leu Leu Leu Ser Ala Ser Lys Gln
      115          120          125
Glu Leu Leu Arg Asp Ser Phe Arg Ser Cys Glu Leu Leu Arg Glu
      130          135          140
Cys Glu Leu Gln Ser Gln Lys Leu Gly Lys Arg Val Glu Lys Ile Ile
      145          150          155          160
Ala Ile Phe Gly Leu Glu Gly Leu Gly Leu Arg Asp Leu Trp Lys Pro
      165          170          175
Gly Ile Glu Leu Leu Gln Glu
      180          183

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<210> 2647
<211> 120
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(120)
<223> Xaa = any amino acid or nothing

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<400> 2647
Met Val Ser Ser Cys Cys Gly Ser Val Cys Ser Asp Gln Gly Cys Gly
 1          5          10          15
Gln Asp Leu Cys Gln Glu Thr Cys Cys Arg Pro Ser Cys Cys Glu Thr
      20          25          30
Thr Cys Cys Arg Thr Thr Cys Cys Arg Pro Ser Cys Cys Val Ser Ser
      35          40          45
Cys Cys Arg Pro Gln Cys Cys Gln Ser Val Cys Cys Gln Pro Thr Cys
      50          55          60
Ser Arg Pro Ser Cys Cys Gln Thr Thr Cys Cys Arg Thr Thr Cys Tyr
      65          70          75          80
Arg Pro Ser Cys Cys Val Ser Ser Cys Cys Arg Pro Gln Cys Cys Gln
      85          90          95
Pro Val Cys Cys Gln Pro Thr Cys Cys Arg Pro Ser Cys Cys Glu Thr
      100          105          110
Thr Cys Cys His Pro Xaa Cys Cys
      115          120

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<210> 2648
<211> 120
<212> PRT
<213> Homo sapiens

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<400> 2648
Gly Gly Asn Arg Lys Ser Ala Glu Met Phe Ser Gln Val Pro Arg Thr
 1          5          10          15
Pro Ala Ser Gly Cys Tyr Tyr Leu Asn Ser Met Thr Pro Glu Gly Gln
      20          25          30
Glu Met Tyr Leu Arg Phe Asp Gln Thr Thr Arg Arg Ser Pro Tyr Arg
      35          40          45

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Met Ser Arg Ile Leu Ala Arg His Gln Leu Val Thr Lys Ile Gln Gln
  50          55          60
Glu Ile Glu Ala Lys Glu Ala Cys Asp Trp Leu Arg Ala Ala Gly Phe
  65          70          75          80
Pro Gln Tyr Ala Gln Leu Tyr Glu Asp Ser Gln Phe Pro Ile Asn Ile
          85          90          95
Val Ala Val Lys Asn Asp His Asp Phe Leu Glu Lys Asp Leu Gly Glu
          100          105          110
Pro Leu Cys Arg Arg Leu Asn Thr
          115          120

```

<210> 2649
 <211> 131
 <212> PRT
 <213> Homo sapiens

```

<400> 2649
Pro Arg Phe Ser Glu Leu Val Asp Gly Arg Gly Arg Val Ser Ala Arg
  1          5          10          15
Phe Gly Gly Ser Pro Ser Lys Ala Ala Thr Val Arg Ser Gln Pro Thr
          20          25          30
Ala Ser Ala Gln Leu Glu Asn Met Glu Glu Ala Pro Lys Arg Val Ser
          35          40          45
Leu Ala Leu Gln Leu Pro Glu His Gly Ser Lys Asp Ile Gly Asn Val
          50          55          60
Pro Gly Asn Cys Ser Glu Asn Pro Cys Gln Asn Gly Gly Thr Cys Val
          65          70          75          80
Pro Gly Ala Asp Ala His Ser Cys Asp Cys Gly Pro Gly Phe Lys Gly
          85          90          95
Arg Arg Cys Glu Leu Ala Cys Ile Lys Val Ser Arg Pro Cys Thr Arg
          100          105          110
Leu Phe Ser Glu Thr Lys Ala Phe Pro Val Trp Glu Gly Gly Val Cys
          115          120          125
His His Val
          130 131

```

<210> 2650
 <211> 98
 <212> PRT
 <213> Homo sapiens

```

<400> 2650
Ala Lys Ile Ala Ser Leu Glu Arg Ile Met Pro Ala Asn Tyr Thr Cys
  1          5          10          15
Thr Arg Pro Asp Gly Asp Asn Thr Asp Phe Arg Tyr Phe Ile Tyr Ala
          20          25          30
Val Thr Tyr Thr Gly Ile Leu Gly Pro Gly Leu Ile Gly Asn Ile Leu
          35          40          45
Ala Leu Trp Val Phe Tyr Gly Tyr Met Lys Glu Thr Lys Arg Ala Val
          50          55          60
Ile Phe Met Ile Asn Leu Ala Ile Ala Asp Leu Leu Gln Val Leu Ser
          65          70          75          80
Leu Pro Leu Arg Ile Phe Tyr Tyr Leu Lys His Asp Trp Pro Phe Val
          85          90          95
Pro Val
          98

```

<210> 2651
 <211> 2515
 <212> PRT
 <213> Homo sapiens

<400> 2651
 Pro Gly Ile Arg Val Gly Ile Thr Ser Gln Thr Gly Leu Ser Ser Asn
 1 5 10 15
 Leu Gln Glu Asn Cys Ser Lys Leu Ala Phe Ile Ser Ser His Gly Thr
 20 25 30
 Glu Lys Gln Leu Gln Cys Met Pro Met Glu Gly Arg Gly Arg Ala Ser
 35 40 45
 Ser Ser Ile Ser Asp Leu Gln Gly Lys Gly Phe Glu Lys Gly Thr Gly
 50 55 60
 Glu Lys His Val Pro Gly Val Gly Ser Ala Arg His Ser Pro Gln Ala
 65 70 75 80
 Ser Ala Gly Gly Ser Pro Trp Gln Arg Gly Lys Ala Gln Thr Arg Trp
 85 90 95
 Leu Gly Lys Pro Asp Pro Gly Arg Lys Arg Arg Gly Ser Pro Gln
 100 105 110
 Glu Glu Gly Gly Leu Arg Val Ser Ala Ala Ala Arg Leu Leu Cys Ser
 115 120 125
 Gly Ala Asn Arg Cys Lys Val Leu Val Arg Gln Asn Ser Thr Pro Asn
 130 135 140
 Thr Gln Gln Pro Ala Val His Pro Ser Thr Pro Pro Ser Arg Pro Leu
 145 150 155 160
 Pro Gln Ala Gly Arg Cys Leu Val Ala Pro Leu Arg Pro His Pro Asp
 165 170 175
 Trp Val Ala Ala Lys Thr Leu Ala Lys Ala Leu Arg Ala Pro Gly Lys
 180 185 190
 Pro Trp Arg Leu Ala Ala Pro Ser Pro Leu Gly Asp Leu Gly Ala Pro
 195 200 205
 Gly Leu Pro Gly Pro Ser Thr Ala Pro Arg Thr Leu Ser Val Glu Glu
 210 215 220
 Pro Gly Val Glu Cys Asn Gln Leu Cys Leu Tyr Ala Asp Val Thr Asp
 225 230 235 240
 Pro Val Leu Cys Leu Gly Gln Lys Asp Pro Gly Val Glu Gly Lys His
 245 250 255
 Cys Glu Lys Glu Lys Ile Ser Ser Ser Lys Glu Leu Lys His Val His
 260 265 270
 Ala Lys Ser Glu Pro Ser Lys Pro Ala Arg Arg Leu Ser Glu Ser Leu
 275 280 285
 His Val Val Asp Glu Asn Lys Asn Glu Ser Lys Ile Glu Arg Glu His
 290 295 300
 Lys Arg Arg Thr Ser Thr Pro Val Ile Met Glu Gly Val Gln Glu Glu
 305 310 315 320
 Thr Asp Thr Arg Asp Val Lys Arg Gln Val Glu Arg Ser Glu Ile Cys
 325 330 335
 Thr Glu Glu Pro Gln Lys Gln Lys Ser Thr Leu Lys Asn Glu Lys His
 340 345 350
 Leu Lys Lys Asp Asp Ser Glu Thr Pro His Leu Lys Ser Leu Leu Lys
 355 360 365
 Lys Glu Val Lys Ser Ser Lys Glu Lys Pro Glu Arg Glu Lys Thr Pro
 370 375 380
 Ser Glu Asp Lys Leu Ser Val Lys His Lys Tyr Lys Gly Asp Cys Met
 385 390 395 400
 His Lys Thr Gly Asp Glu Thr Glu Leu His Ser Ser Glu Lys Gly Leu
 405 410 415
 Lys Val Glu Glu Asn Ile Gln Lys Gln Ser Gln Gln Thr Lys Leu Ser
 420 425 430
 Ser Asp Asp Lys Thr Glu Arg Lys Ser Lys His Arg Asn Glu Arg Lys
 435 440 445

Leu Ser Val Leu Gly Lys Asp Gly Lys Pro Val Ser Glu Tyr Ile Ile
 450 455 460
 Lys Thr Asp Glu Asn Val Arg Lys Glu Asn Asn Lys Lys Glu Arg Arg
 465 470 475 480
 Leu Ser Ala Glu Lys Thr Lys Ala Glu His Lys Ser Arg Arg Ser Ser
 485 490 495
 Asp Ser Lys Ile Gln Lys Asp Ser Leu Gly Ser Lys Gln His Gly Ile
 500 505 510
 Thr Leu Gln Arg Arg Ser Glu Ser Tyr Ser Glu Asp Lys Cys Asp Met
 515 520 525
 Asp Ser Thr Asn Met Asp Ser Asn Leu Lys Pro Glu Glu Val Val His
 530 535 540
 Lys Glu Lys Arg Arg Thr Lys Ser Leu Leu Glu Glu Lys Leu Val Leu
 545 550 555 560
 Lys Ser Lys Ser Lys Thr Gln Gly Lys Gln Val Lys Val Val Glu Thr
 565 570 575
 Glu Leu Gln Glu Gly Ala Thr Lys Gln Ala Thr Thr Pro Lys Pro Asp
 580 585 590
 Lys Glu Lys Asn Thr Glu Glu Asn Asp Ser Glu Lys Gln Arg Lys Ser
 595 600 605
 Lys Val Glu Asp Lys Pro Phe Glu Glu Thr Gly Val Glu Pro Val Leu
 610 615 620
 Glu Thr Ala Ser Ser Ser Ala His Ser Thr Gln Lys Asp Ser Ser His
 625 630 635 640
 Arg Ala Lys Leu Pro Leu Ala Lys Glu Lys Tyr Lys Ser Asp Lys Asp
 645 650 655
 Ser Thr Ser Thr Arg Leu Glu Arg Lys Leu Ser Asp Gly His Lys Ser
 660 665 670
 Arg Ser Leu Lys His Ser Ser Lys Asp Ile Lys Lys Lys Asp Glu Asn
 675 680 685
 Lys Ser Asp Asp Lys Asp Gly Lys Glu Val Asp Ser Ser His Glu Lys
 690 695 700
 Ala Arg Gly Asn Ser Ser Leu Met Glu Lys Lys Leu Ser Arg Arg Leu
 705 710 715 720
 Cys Glu Asn Arg Arg Gly Ser Leu Ser Gln Glu Met Ala Lys Gly Glu
 725 730 735
 Glu Lys Leu Ala Ala Asn Thr Leu Ser Thr Pro Ser Gly Ser Ser Leu
 740 745 750
 Gln Arg Pro Lys Lys Ser Gly Asp Met Thr Leu Ile Pro Glu Gln Glu
 755 760 765
 Pro Met Glu Ile Asp Ser Glu Pro Gly Val Glu Asn Val Phe Glu Val
 770 775 780
 Ser Lys Thr Gln Asp Asn Arg Asn Asn Asn Ser His Gln Asp Ile Asp
 785 790 795 800
 Ser Glu Asn Met Lys Gln Lys Thr Ser Ala Thr Val Gln Lys Asp Glu
 805 810 815
 Leu Arg Thr Cys Thr Ala Asp Ser Lys Ala Thr Ala Pro Ala Tyr Lys
 820 825 830
 Pro Gly Arg Gly Thr Gly Val Asn Ser Asn Ser Glu Lys His Ala Asp
 835 840 845
 His Arg Ser Thr Leu Thr Lys Lys Met His Ile Gln Ser Ala Val Ser
 850 855 860
 Lys Met Asn Pro Gly Glu Lys Glu Pro Ile His Arg Gly Thr Thr Glu
 865 870 875 880
 Val Asn Ile Asp Ser Glu Thr Val His Arg Met Leu Leu Ser Ala Pro
 885 890 895
 Ser Glu Asn Asp Arg Val Gln Lys Asn Leu Lys Asn Thr Ala Ala Glu
 900 905 910
 Glu His Val Ala Gln Gly Asp Ala Thr Leu Glu His Ser Thr Asn Leu
 915 920 925
 Asp Ser Ser Pro Ser Leu Ser Ser Val Thr Val Val Pro Leu Arg Glu
 930 935 940
 Ser Tyr Asp Pro Asp Val Ile Pro Leu Phe Asp Lys Arg Thr Val Leu
 945 950 955 960

Glu Gly Ser Thr Ala Ser Thr Ser Pro Ala Asp His Ser Ala Leu Pro
 965 970 975
 Asn Gln Ser Leu Thr Val Arg Glu Ser Glu Val Leu Lys Thr Ser Asp
 980 985 990
 Ser Lys Glu Gly Gly Glu Gly Phe Thr Val Asp Thr Pro Ala Lys Ala
 995 1000 1005
 Ser Ile Thr Ser Lys Arg His Ile Pro Glu Ala His Gln Ala Thr Leu
 1010 1015 1020
 Leu Asp Gly Lys Gln Gly Lys Val Ile Met Pro Leu Gly Ser Lys Leu
 1025 1030 1035 1040
 Thr Gly Val Ile Val Glu Asn Glu Asn Ile Thr Lys Glu Gly Gly Leu
 1045 1050 1055
 Val Asp Met Ala Lys Lys Glu Asn Asp Leu Asn Ala Glu Pro Asn Leu
 1060 1065 1070
 Lys Gln Thr Ile Lys Ala Thr Val Glu Asn Gly Lys Lys Asp Gly Ile
 1075 1080 1085
 Ala Val Asp His Val Val Gly Leu Asn Thr Glu Lys Tyr Ala Glu Thr
 1090 1095 1100
 Val Lys Leu Lys His Lys Arg Ser Pro Gly Lys Val Lys Asp Ile Ser
 1105 1110 1115 1120
 Ile Asp Val Glu Arg Arg Asn Glu Asn Ser Glu Val Asp Thr Ser Ala
 1125 1130 1135
 Gly Ser Gly Ser Ala Pro Ser Val Leu His Gln Arg Asn Gly Gln Thr
 1140 1145 1150
 Glu Asp Val Ala Thr Gly Pro Arg Arg Ala Glu Lys Thr Ser Val Ala
 1155 1160 1165
 Thr Ser Thr Glu Gly Lys Asp Lys Asp Val Thr Leu Ser Pro Val Lys
 1170 1175 1180
 Ala Gly Pro Ala Thr Thr Thr Ser Ser Glu Thr Arg Gln Ser Glu Val
 1185 1190 1195 1200
 Ala Leu Pro Cys Thr Ser Ile Glu Ala Asp Glu Gly Leu Ile Ile Gly
 1205 1210 1215
 Thr His Ser Arg Asn Asn Pro Leu His Val Gly Ala Glu Ala Ser Glu
 1220 1225 1230
 Cys Thr Val Phe Ala Ala Ala Glu Glu Gly Gly Ala Val Val Thr Glu
 1235 1240 1245
 Gly Phe Ala Glu Ser Glu Thr Phe Leu Thr Ser Thr Lys Glu Gly Glu
 1250 1255 1260
 Ser Gly Glu Cys Ala Val Ala Glu Ser Glu Asp Arg Ala Ala Asp Leu
 1265 1270 1275 1280
 Leu Ala Val His Ala Val Lys Ile Glu Ala Asn Val Asn Ser Val Val
 1285 1290 1295
 Thr Glu Glu Lys Asp Asp Ala Val Thr Ser Ala Gly Ser Glu Glu Lys
 1300 1305 1310
 Cys Asp Gly Ser Leu Ser Arg Asp Ser Glu Ile Val Glu Gly Thr Ile
 1315 1320 1325
 Thr Phe Ile Ser Glu Val Glu Ser Asp Gly Ala Val Thr Ser Ala Gly
 1330 1335 1340
 Thr Glu Ile Arg Ala Gly Ser Ile Ser Ser Glu Glu Val Asp Gly Ser
 1345 1350 1355 1360
 Gln Gly Asn Met Met Arg Met Gly Pro Lys Lys Glu Thr Glu Gly Thr
 1365 1370 1375
 Val Thr Cys Thr Gly Ala Glu Gly Arg Ser Asp Asn Phe Val Ile Cys
 1380 1385 1390
 Ser Val Thr Gly Ala Gly Pro Arg Glu Glu Arg Met Val Thr Gly Ala
 1395 1400 1405
 Gly Val Val Leu Gly Asp Asn Asp Ala Pro Pro Gly Thr Ser Ala Ser
 1410 1415 1420
 Gln Glu Gly Asp Gly Ser Val Asn Asp Gly Thr Glu Gly Glu Ser Ala
 1425 1430 1435 1440
 Val Thr Ser Thr Gly Ile Thr Glu Asp Gly Glu Gly Pro Ala Ser Cys
 1445 1450 1455
 Thr Gly Ser Glu Asp Ser Ser Glu Gly Phe Ala Ile Ser Ser Glu Ser
 1460 1465 1470

Glu Glu Asn Gly Glu Ser Ala Met Asp Ser Thr Val Ala Lys Glu Gly
 1475 1480 1485
 Thr Asn Val Pro Leu Val Ala Ala Gly Pro Cys Asp Asp Glu Gly Ile
 1490 1495 1500
 Val Thr Ser Thr Gly Ala Lys Glu Glu Asp Glu Glu Gly Glu Asp Val
 1505 1510 1515 1520
 Val Thr Ser Thr Gly Arg Gly Asn Glu Ile Gly His Ala Ser Thr Cys
 1525 1530 1535
 Thr Gly Leu Gly Glu Glu Ser Glu Gly Val Leu Ile Cys Glu Ser Ala
 1540 1545 1550
 Glu Gly Asp Ser Gln Ile Gly Thr Val Val Glu His Val Glu Ala Glu
 1555 1560 1565
 Ala Gly Ala Ala Ile Met Asn Ala Asn Glu Asn Asn Val Asp Ser Met
 1570 1575 1580
 Ser Gly Thr Glu Lys Gly Ser Lys Asp Thr Asp Ile Cys Ser Ser Ala
 1585 1590 1595 1600
 Lys Gly Ile Val Glu Ser Ser Val Thr Ser Ala Val Ser Gly Lys Asp
 1605 1610 1615
 Glu Val Thr Pro Val Pro Gly Gly Cys Glu Gly Pro Met Thr Ser Ala
 1620 1625 1630
 Ala Ser Asp Gln Ser Asp Ser Gln Leu Glu Lys Val Glu Asp Thr Thr
 1635 1640 1645
 Ile Ser Thr Gly Leu Val Gly Gly Ser Tyr Asp Val Leu Val Ser Gly
 1650 1655 1660
 Glu Val Pro Glu Cys Glu Val Ala His Thr Ser Pro Ser Glu Lys Glu
 1665 1670 1675 1680
 Asp Glu Asp Ile Ile Thr Ser Val Glu Asn Glu Glu Cys Asp Gly Leu
 1685 1690 1695
 Met Ala Thr Thr Ala Ser Gly Asp Ile Thr Asn Gln Asn Ser Leu Ala
 1700 1705 1710
 Gly Gly Lys Asn Gln Gly Lys Val Leu Ile Ile Ser Thr Ser Thr Thr
 1715 1720 1725
 Asn Asp Tyr Thr Pro Gln Val Ser Ala Ile Thr Asp Val Glu Gly Gly
 1730 1735 1740
 Leu Ser Asp Ala Leu Arg Thr Glu Glu Asn Met Glu Gly Thr Arg Val
 1745 1750 1755 1760
 Thr Thr Glu Glu Phe Glu Ala Pro Met Pro Ser Ala Val Ser Gly Asp
 1765 1770 1775
 Asp Ser Gln Leu Thr Ala Ser Arg Ser Glu Glu Lys Asp Glu Cys Ala
 1780 1785 1790
 Met Ile Ser Thr Ser Ile Gly Glu Glu Phe Glu Leu Pro Ile Ser Ser
 1795 1800 1805
 Ala Thr Thr Ile Lys Cys Ala Glu Ser Leu Gln Pro Val Ala Ala Ala
 1810 1815 1820
 Val Glu Glu Arg Ala Thr Gly Pro Val Leu Ile Ser Thr Ala Asp Phe
 1825 1830 1835 1840
 Glu Gly Pro Met Pro Ser Ala Pro Pro Glu Ala Glu Ser Pro Leu Ala
 1845 1850 1855
 Ser Thr Ser Lys Glu Glu Lys Asp Glu Cys Ala Leu Ile Ser Thr Ser
 1860 1865 1870
 Ile Ala Glu Glu Cys Glu Ala Ser Val Ser Gly Val Val Val Glu Ser
 1875 1880 1885
 Glu Asn Glu Arg Ala Gly Thr Val Met Glu Glu Lys Asp Gly Ser Gly
 1890 1895 1900
 Ile Ile Ser Thr Ser Ser Val Glu Asp Cys Glu Gly Pro Val Ser Ser
 1905 1910 1915 1920
 Ala Val Pro Gln Glu Gly Asp Pro Ser Val Thr Pro Ala Glu Glu
 1925 1930 1935
 Met Gly Asp Thr Ala Met Ile Ser Thr Ser Thr Ser Glu Gly Cys Glu
 1940 1945 1950
 Ala Val Met Ile Gly Ala Val Leu Gln Asp Glu Asp Arg Leu Thr Ile
 1955 1960 1965
 Thr Arg Val Glu Asp Leu Ser Asp Ala Ala Ile Ile Ser Thr Ser Thr
 1970 1975 1980

Ala Glu Cys Met Pro Ile Ser Ala Ser Ile Asp Arg His Glu Glu Asn
 1985 1990 1995 2000
 Gln Leu Thr Ala Asp Asn Pro Glu Gly Asn Gly Asp Leu Ser Ala Thr
 2005 2010 2015
 Glu Val Ser Lys His Lys Val Pro Met Pro Ser Leu Ile Ala Glu Asn
 2020 2025 2030
 Asn Cys Arg Cys Pro Gly Pro Val Arg Gly Gly Lys Glu Pro Gly Pro
 2035 2040 2045
 Val Leu Ala Val Ser Thr Glu Glu Gly His Asn Gly Pro Ser Val His
 2050 2055 2060
 Lys Pro Ser Ala Gly Gln Gly His Pro Ser Ala Val Cys Ala Glu Lys
 2065 2070 2075 2080
 Glu Glu Lys His Gly Lys Glu Cys Pro Glu Ile Gly Pro Phe Ala Gly
 2085 2090 2095
 Arg Gly Gln Lys Glu Ser Thr Leu His Leu Ile Asn Ala Glu Glu Lys
 2100 2105 2110
 Asn Val Leu Leu Asn Ser Leu Gln Lys Glu Asp Lys Ser Pro Glu Thr
 2115 2120 2125
 Gly Thr Ala Gly Gly Ser Ser Thr Ala Ser Tyr Ser Ala Gly Arg Gly
 2130 2135 2140
 Leu Glu Gly Asn Ala Asn Ser Pro Ala His Leu Arg Gly Pro Glu Gln
 2145 2150 2155 2160
 Thr Ser Gly Gln Thr Ala Lys Asp Ser Ser Val Ser Ser Ile Arg Tyr
 2165 2170 2175
 Leu Ala Ala Val Asn Thr Gly Ala Ile Lys Ala Asp Asp Met Pro Pro
 2180 2185 2190
 Val Gln Gly Thr Val Ala Glu His Ser Phe Leu Pro Ala Glu Gln Gln
 2195 2200 2205
 Gly Ser Glu Asp Asn Leu Lys Thr Ser Thr Thr Lys Cys Ile Thr Gly
 2210 2215 2220
 Gln Glu Ser Lys Ile Ala Pro Ser His Thr Met Ile Pro Pro Ala Thr
 2225 2230 2235 2240
 Tyr Ser Val Ala Leu Leu Ala Pro Lys Cys Glu Gln Asp Leu Thr Ile
 2245 2250 2255
 Lys Asn Asp Tyr Ser Gly Lys Trp Thr Asp Gln Ala Ser Ala Glu Lys
 2260 2265 2270
 Thr Gly Asp Asp Asn Ser Thr Arg Lys Ser Phe Pro Glu Glu Gly Asp
 2275 2280 2285
 Ile Met Val Thr Val Ser Ser Glu Glu Asn Val Cys Asp Ile Gly Asn
 2290 2295 2300
 Glu Glu Ser Pro Leu Asn Val Leu Gly Gly Leu Lys Leu Lys Ala Asn
 2305 2310 2315 2320
 Leu Lys Met Glu Ala Tyr Val Pro Ser Glu Glu Glu Lys Asn Gly Glu
 2325 2330 2335
 Ile Leu Ala Pro Glu Ser Leu Cys Gly Gly Lys Pro Ser Gly Ile
 2340 2345 2350
 Ala Glu Leu Gln Arg Glu Pro Leu Leu Val Asn Glu Ser Leu Asn Val
 2355 2360 2365
 Glu Asn Ser Gly Phe Arg Thr Asn Glu Glu Ile His Ser Glu Ser Tyr
 2370 2375 2380
 Asn Lys Gly Glu Ile Ser Ser Gly Arg Lys Asp Asn Ala Glu Ala Ile
 2385 2390 2395 2400
 Ser Gly His Ser Val Glu Ala Asp Pro Lys Glu Val Glu Glu Glu
 2405 2410 2415
 Arg His Met Pro Lys Arg Lys Arg Lys Gln His Tyr Leu Ser Ser Glu
 2420 2425 2430
 Asp Glu Pro Asp Asp Asn Pro Asp Val Leu Asp Ser Arg Ile Glu Thr
 2435 2440 2445
 Ala Gln Arg Gln Cys Pro Glu Thr Glu Pro His Ala Thr Lys Glu Glu
 2450 2455 2460
 Asn Ser Arg Asp Leu Glu Glu Leu Pro Lys Thr Ser Ser Glu Thr Asn
 2465 2470 2475 2480
 Ser Thr Thr Ser Arg Val Met Glu Glu Lys Asp Glu Tyr Ser Ser Ser
 2485 2490 2495

Glu Thr Thr Gly Glu Lys Pro Glu Gln Asn Asp Asp Asp Thr Ile Lys
 2500 2505 2510
 Ser Gln Glu
 2515

<210> 2652
 <211> 174
 <212> PRT
 <213> Homo sapiens

<400> 2652
 Glu Pro Ser Leu Phe Pro Phe Leu Arg Pro Ser Pro Ala Arg Pro Pro
 1 5 10 15
 Pro Arg Pro Pro Ala Pro Phe Pro Ser Pro Glu Leu Ala Gly Pro Glu
 20 25 30
 Pro His Phe Val Phe Tyr Phe Phe Leu Ser Tyr Val His Pro Pro Lys
 35 40 45
 Glu Leu Ala Lys Tyr Glu Tyr Met Glu Glu Gln Val Ile Leu Thr Glu
 50 55 60
 Lys Gly Asn Ser Thr Val Ala Gly Arg Gly Thr Ser Val Arg Cys Leu
 65 70 75 80
 Ser Pro Ser Pro Arg Pro Leu Pro Pro Leu Leu Pro Leu Leu Ala Asp
 85 90 95
 Leu Leu Glu Asp Gly Phe Gly Glu His Pro Phe Tyr His Cys Leu Val
 100 105 110
 Ala Glu Val Pro Lys Glu His Trp Thr Pro Glu Gly Asn Pro Ser Pro
 115 120 125
 Phe Pro Glu Ala Arg Glu Thr Lys Cys Tyr Val Arg Ser Ser Val Gly
 130 135 140
 Cys Val Glu Pro Leu Thr Thr Gln Ala Glu Val Thr Glu Asn Leu Asp
 145 150 155 160
 Arg Lys Asn Ser Gln Gln Val Phe Lys Leu Leu Lys Lys Lys
 165 170 174

<210> 2653
 <211> 74
 <212> PRT
 <213> Homo sapiens

<400> 2653
 Asn Met Ile Leu Leu Lys Lys Arg Arg Leu Leu Ile Asn Ser Leu Gly
 1 5 10 15
 Glu Gly Thr Ile Asn Gly Leu Leu Asp Glu Leu Leu Glu Thr Asn Val
 20 25 30
 Leu Ser Gln Glu Asp Thr Glu Ile Val Lys Cys Glu Asn Val Thr Val
 35 40 45
 Ile Asp Lys Ala Arg Asp Leu Leu Asp Ser Val Ile Arg Lys Gly Ala
 50 55 60
 Arg Ala Cys Glu Ile Cys Ile Thr Tyr Ile
 65 70 74

<210> 2654
 <211> 185
 <212> PRT
 <213> Homo sapiens

<400> 2654

```

Leu Cys Thr Leu Ser Pro Gly Ile Ser Gly Thr Ala Gly Ser Cys Leu
 1           5           10           15
Thr Thr Glu Pro Gly Thr Glu Leu Gly Thr Ser Phe Ala Gln Asn Gly
      20           25           30
Phe Tyr His Glu Ala Val Val Leu Phe Thr Gln Ala Leu Lys Leu Asn
      35           40           45
Pro Gln Asp His Arg Leu Phe Gly Asn Arg Ser Phe Cys His Glu Arg
      50           55           60
Leu Gly Gln Pro Ala Trp Ala Leu Ala Asp Ala Gln Val Ala Leu Thr
      65           70           75           80
Leu Arg Pro Gly Trp Pro Arg Gly Leu Phe Arg Leu Gly Lys Ala Leu
      85           90           95
Met Gly Leu Gln Arg Phe Arg Glu Ala Ala Val Phe Gln Glu Thr
      100          105          110
Leu Arg Gly Gly Ser Gln Pro Asp Ala Ala Arg Glu Leu Arg Ser Cys
      115          120          125
Leu Leu His Leu Thr Leu Gln Gly Gln Arg Gly Gly Ile Cys Ala Pro
      130          135          140
Pro Leu Ser Pro Gly Ala Leu Gln Pro Leu Pro His Ala Glu Leu Ala
      145          150          155          160
Pro Ser Gly Leu Pro Ser Leu Arg Cys Pro Arg Ser Thr Ala Leu Arg
      165          170          175
Ser Pro Gly Leu Ser Pro Leu Leu His
      180          185

```

<210> 2655

<211> 130

<212> PRT

<213> Homo sapiens

<400> 2655

```

Thr Asp Leu Leu Gly Arg Arg Phe Arg Val Asp Gly Ala Ala Met Ala
 1           5           10           15
Ala Cys Glu Gly Arg Arg Ser Gly Ala Leu Gly Ser Ser Gln Ser Asp
      20           25           30
Phe Leu Thr Pro Pro Val Gly Gly Ala Pro Trp Ala Val Ala Thr Thr
      35           40           45
Val Val Met Tyr Pro Pro Pro Pro Pro Pro Pro His Arg Asp Phe Ile
      50           55           60
Ser Val Thr Leu Ser Phe Gly Glu Ser Tyr Asp Asn Ser Lys Ser Trp
      65           70           75           80
Arg Arg Arg Ser Cys Trp Arg Lys Trp Lys Gln Leu Ser Arg Leu Gln
      85           90           95
Arg Asn Met Ile Leu Phe Leu Leu Ala Phe Leu Leu Phe Cys Gly Leu
      100          105          110
Leu Phe Tyr Ile Asn Leu Ala Asp His Trp Lys Gly Ile Arg Asn Thr
      115          120          125
Cys Thr
      130

```

<210> 2656

<211> 136

<212> PRT

<213> Homo sapiens

<400> 2656

```

Ile Pro Gly Ser Thr Ile Ser Leu Glu Gly Pro Leu Ser Lys Trp Thr
 1           5           10           15
Asn Val Met Lys Gly Trp Gln Tyr Arg Trp Phe Val Leu Asp Tyr Asn
           20           25           30
Ala Gly Leu Leu Ser Tyr Tyr Thr Ser Lys Asp Lys Met Met Arg Gly
           35           40           45
Ser Arg Arg Gly Cys Val Arg Leu Arg Gly Ala Val Ile Gly Ile Asp
 50           55           60
Asp Glu Asp Asp Ser Thr Phe Thr Ile Thr Val Asp Gln Lys Thr Phe
 65           70           75           80
His Phe Gln Ala Arg Asp Ala Asp Glu Arg Glu Lys Trp Ile His Ala
           85           90           95
Leu Glu Glu Thr Ile Leu Arg His Thr Leu Gln Leu Gln Val Arg Val
           100          105          110
Phe Thr Trp Phe Pro Asp Ser Ser Leu Val Gly Ala Phe Phe Phe Trp
           115          120          125
Leu Val Ser Gly Phe Phe Phe Lys
130           135 136

```

<210> 2657
 <211> 74
 <212> PRT
 <213> Homo sapiens

```

<400> 2657
Gln Gly Leu Pro Ser Thr Met Val Lys Leu Gly Cys Ser Phe Ser Gly
 1           5           10           15
Lys Pro Gly Lys Asp Pro Gly Asp Gln Asp Gly Ala Ala Met Asp Ser
           20           25           30
Val Pro Leu Ile Ser Pro Leu Asp Ile Ser Gln Leu Gln Pro Pro Leu
           35           40           45
Pro Asp Gln Val Val Ile Lys Thr Gln Thr Glu Tyr Gln Leu Ser Ser
 50           55           60
Pro Asp Gln Gln Asn Tyr Thr Lys Ser Arg
 65           70           74

```

<210> 2658
 <211> 150
 <212> PRT
 <213> Homo sapiens

```

<400> 2658
Glu Cys Gly Gly Ile Arg Gln Pro Gly Pro Gly Pro Pro Pro Ala Leu
 1           5           10           15
Ala Ser Ala Pro Ala Ala Thr Met Asn Arg Val Gly Gly Ser Pro Ser
           20           25           30
Ala Ala Ala Asn Tyr Leu Leu Cys Thr Asn Cys Arg Lys Val Leu Arg
           35           40           45
Lys Asp Lys Arg Ile Arg Val Ser Gln Pro Leu Thr Arg Gly Pro Ser
 50           55           60
Ala Phe Ile Pro Glu Lys Glu Val Val Gln Ala Asn Thr Val Asp Glu
 65           70           75           80
Arg Thr Asn Phe Leu Val Glu Glu Tyr Ser Thr Ser Gly Arg Leu Asp
           85           90           95
Asn Ile Thr Gln Val Met Ser Leu His Thr Gln Tyr Leu Glu Ser Phe
           100          105          110
Leu Arg Ser Gln Phe Tyr Met Leu Arg Met Asp Gly Pro Leu Pro Leu
           115          120          125

```

Pro Tyr Arg His Tyr Ile Ala Ile Met Ala Ala Ala Arg His Gln Cys
 130 135 140
 Ser Tyr Leu Ile Asn Met
 145 150

<210> 2659
 <211> 125
 <212> PRT
 <213> Homo sapiens

<400> 2659
 Arg Gly Trp Pro Glu Gln Gln Ser Thr Gly Arg Pro Arg Asp Val Ala
 1 5 10 15
 Arg Gln Pro Arg Cys Gln Lys Glu Glu Gly Arg Arg Leu Arg Pro Arg
 20 25 30
 Ala Leu Glu Ser Arg Thr Phe Gln Gly Ser Glu Arg Ser Arg Trp Gly
 35 40 45
 Pro Pro Leu Glu Ser Thr Lys Glu Asn Val Gln Cys Gly His Arg Pro
 50 55 60
 Ala Phe Pro Asn Ser Ser Trp Leu Pro Phe His Glu Arg Leu Gln Val
 65 70 75 80
 Gln Asn Gly Glu Cys Pro Trp Gln Val Ser Ile Gln Met Ser Arg Lys
 85 90 95
 His Leu Cys Gly Gly Ser Ile Leu His Trp Trp Trp Val Leu Thr Ala
 100 105 110
 Ala His Cys Phe Arg Arg Thr Leu Leu Asp Met Ala Val
 115 120 125

<210> 2660
 <211> 66
 <212> PRT
 <213> Homo sapiens

<400> 2660
 Ala Phe Gln Leu Phe Asn Ala Lys Cys Glu Ser Ala Phe Leu Ser Lys
 1 5 10 15
 Arg Asn Pro Leu Gln Arg Asn Trp Thr Val Leu Tyr Arg Arg Lys His
 20 25 30
 Lys Lys Gly Gln Ser Ala Glu Ile Gln Lys Lys Arg Thr Arg Arg Ala
 35 40 45
 Phe Lys Phe Gln Arg Ala Ile Thr Gly Ala Ser Leu Ala Asp Ile Met
 50 55 60
 Ala Lys
 65 66

<210> 2661
 <211> 191
 <212> PRT
 <213> Homo sapiens

<400> 2661
 Leu Pro Gly Ala Asp Tyr Gly Gly Gly His Leu Ser Leu Arg Leu Phe
 1 5 10 15
 His Leu Leu Leu Thr Ser Ala Ala Trp Val Pro Asp Glu Ser Gln Val
 20 25 30


```

Thr Leu Asn Ser Ala Ile Cys Val Leu Ser Thr Val Leu Ile Met Glu
      35          40          45
Phe Pro Asp Leu Gly Lys His Cys Ser Glu Lys Thr Cys Lys Gln Leu
      50          55          60
Asp Phe Leu Pro Val Lys Cys Asp Ala Cys Lys Gln Asp Phe Cys Lys
      65          70          75          80
Asp His Phe Pro Tyr Ala Ala His Lys Cys Pro Phe Ala Phe Gln Lys
      85          90          95
Asp Val His Val Pro Val Cys Pro Leu Cys Asn Thr Pro Ile Pro Val
      100         105         110
Lys Lys Gly Gln Ile Pro Asp Val Val Val Gly Asp His Ile Asp Arg
      115         120         125
Asp Cys Asp Ser His Pro Gly Lys Lys Lys Glu Lys Ile Phe Thr Tyr
      130         135         140
Arg Cys Ser Lys Glu Gly Cys Lys Lys Lys Glu Met Leu Gln Met Val
      145         150         155         160
Cys Ala Gln Cys His Gly Asn Phe Cys Ile Gln His Arg His Pro Leu
      165         170         175
Asp His Ser Cys Arg His Gly Ser Arg Pro Thr Ile Lys Ala Gly
      180         185         190 191

```

<210> 2662
 <211> 222
 <212> PRT
 <213> Homo sapiens

```

<400> 2662
Ser Thr Ser Ser Asp Glu Gly Ser Pro Ser Ala Ser Thr Pro Met Ile
  1      5      10      15
Asn Lys Thr Gly Phe Lys Phe Ser Ala Glu Lys Pro Val Ile Glu Val
      20      25      30
Pro Ser Met Thr Ile Leu Asp Lys Lys Asp Gly Glu Gln Ala Lys Ala
      35      40      45
Leu Phe Glu Lys Val Arg Lys Phe Arg Ala His Val Glu Asp Ser Asp
      50      55      60
Leu Ile Tyr Lys Leu Tyr Val Val Gln Thr Val Ile Lys Thr Ala Lys
      65      70      75      80
Phe Ile Phe Ile Leu Cys Tyr Thr Ala Asn Phe Val Asn Ala Ile Ser
      85      90      95
Phe Glu His Val Cys Lys Pro Lys Val Glu His Leu Ile Gly Tyr Glu
      100     105     110
Val Phe Glu Cys Thr His Asn Met Ala Tyr Met Leu Lys Lys Leu Leu
      115     120     125
Ile Ser Tyr Ile Ser Ile Ile Cys Val Tyr Gly Phe Ile Cys Leu Tyr
      130     135     140
Thr Leu Phe Trp Leu Phe Arg Ile Pro Leu Lys Glu Tyr Ser Phe Glu
      145     150     155     160
Lys Val Arg Glu Glu Ser Ser Phe Ser Asp Ile Pro Asp Val Lys Asn
      165     170     175
Asp Phe Ala Phe Leu Leu His Met Val Asp Gln Tyr Asp Gln Leu Tyr
      180     185     190
Ser Lys Arg Phe Gly Val Phe Leu Ser Glu Val Ser Glu Asn Lys Leu
      195     200     205
Arg Glu Ile Ser Leu Asn His Glu Trp Thr Phe Glu Lys Leu
      210     215     220     222

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<210> 2663
 <211> 318
 <212> PRT

<213> Homo sapiens

<400> 2663

```

Gly Ala His Arg Val Leu Ser Pro Ala Gln Gly Ala Gln Pro Arg Leu
 1          5          10          15
Arg Ser Ala Ala Ser Val Glu Val Ser Met Val Gly Gln Arg Val Leu
          20          25          30
Leu Leu Val Ala Phe Leu Leu Ser Gly Val Leu Leu Ser Glu Ala Ala
 35          40          45
Lys Ile Leu Thr Ile Ser Thr Leu Gly Gly Ser His Tyr Leu Leu Leu
 50          55          60
Asp Arg Val Ser Gln Ile Leu Gln Glu His Gly His Asn Val Thr Met
 65          70          75          80
Leu His Gln Ser Gly Lys Phe Leu Ile Pro Asp Ile Lys Glu Glu Glu
          85          90          95
Lys Ser Tyr Gln Val Ile Arg Trp Phe Ser Pro Glu Asp His Gln Lys
          100          105          110
Arg Ile Lys Lys His Phe Asp Ser Tyr Ile Glu Thr Ala Leu Asp Gly
          115          120          125
Arg Lys Glu Ser Glu Ala Leu Val Lys Leu Met Glu Ile Phe Gly Thr
          130          135          140
Gln Cys Ser Tyr Leu Leu Ser Arg Lys Asp Ile Met Asp Ser Leu Lys
          145          150          155          160
Asn Glu Asn Tyr Asp Leu Val Phe Val Glu Ala Phe Asp Phe Cys Ser
          165          170          175
Phe Leu Ile Ala Glu Lys Leu Val Lys Pro Phe Val Ala Ile Leu Pro
          180          185          190
Thr Thr Phe Gly Ser Leu Asp Phe Gly Leu Pro Ser Pro Leu Ser Tyr
          195          200          205
Val Pro Val Phe Pro Ser Leu Leu Thr Asp His Met Asp Phe Trp Gly
          210          215          220
Arg Val Lys Asn Phe Leu Met Phe Phe Ser Phe Ser Arg Ser Gln Trp
          225          230          235          240
Asp Met Gln Ser Thr Phe Asp Asn Thr Ile Lys Glu His Phe Pro Glu
          245          250          255
Gly Ser Arg Pro Val Leu Ser His Leu Leu Leu Lys Ala Glu Leu Trp
          260          265          270
Phe Val Asn Ser Asp Cys Ala Phe Asp Phe Ala Arg Pro Leu Leu Pro
          275          280          285
Asn Thr Val Tyr Ile Gly Gly Leu Met Glu Lys Pro Ile Lys Pro Val
          290          295          300
Pro Gln Val Ser Glu Pro Ser Ala Phe Ser Leu Gly Phe Thr
          305          310          315          318

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<210> 2664

<211> 451

<212> PRT

<213> Homo sapiens

<400> 2664

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Asn Val Gln Leu Ala Lys Phe Ser Ser Thr Leu Val Phe Phe Phe Ser
 1          5          10          15
Cys Asp Ala Asp Pro Ser Ala Leu Ala Lys Tyr Val Leu Ala Leu Val
          20          25          30
Lys Lys Asp Lys Ser Glu Lys Glu Leu Lys Ala Leu Cys Ile Asp Gln
          35          40          45
Leu Asp Val Phe Leu Gln Lys Glu Thr Gln Ile Phe Val Glu Lys Leu
          50          55          60
Phe Asp Ala Val Asn Thr Lys Ser Tyr Leu Pro Pro Pro Glu Gln Pro
          65          70          75          80

```

Ser Ser Gly Ser Leu Lys Val Glu Phe Phe Pro Pro Gln Glu Lys Asp
 85 90 95
 Ile Lys Lys Glu Glu Ile Thr Lys Glu Glu Glu Arg Glu Lys Lys Phe
 100 105 110
 Ser Arg Arg Leu Asn His Ser Pro Pro Gln Ser Ser Ser Arg Tyr Arg
 115 120 125
 Glu Asn Arg Ser Arg Asp Glu Arg Lys Lys Asp Asp Arg Ser Arg Lys
 130 135 140
 Arg Asp Tyr Asp Arg Asn Pro Pro Arg Arg Asp Ser Tyr Arg Asp Arg
 145 150 155 160
 Tyr Asn Arg Arg Arg Gly Arg Ser Arg Ser Tyr Ser Arg Ser Arg Ser
 165 170 175
 Arg Ser Trp Ser Lys Glu Arg Leu Arg Glu Arg Asp Arg Asp Arg Ser
 180 185 190
 Arg Thr Arg Ser Arg Ser Arg Thr Arg Ser Arg Glu Arg Asp Leu Val
 195 200 205
 Lys Pro Lys Tyr Asp Leu Asp Arg Thr Asp Pro Leu Glu Asn Asn Tyr
 210 215 220
 Thr Pro Val Ser Ser Val Pro Ser Ile Ser Ser Gly His Tyr Pro Val
 225 230 235 240
 Pro Thr Leu Ser Ser Thr Ile Thr Val Ile Ala Pro Thr His His Gly
 245 250 255
 Asn Asn Thr Thr Glu Ser Trp Ser Glu Phe His Glu Asp Gln Val Asp
 260 265 270
 His Asn Ser Tyr Val Arg Pro Pro Met Pro Lys Lys Arg Cys Arg Asp
 275 280 285
 Tyr Asp Glu Lys Gly Phe Cys Met Arg Gly Asp Met Cys Pro Phe Asp
 290 295 300
 His Gly Ser Asp Pro Val Val Val Glu Asp Val Asn Leu Pro Gly Met
 305 310 315 320
 Gln Pro Phe Pro Ala Gln Pro Pro Val Val Glu Gly Pro Pro Pro
 325 330 335
 Gly Leu Pro Pro Pro Pro Ile Leu Thr Pro Pro Pro Val Asn Leu
 340 345 350
 Arg Pro Pro Val Pro Pro Pro Gly Pro Leu Pro Pro Ser Leu Pro Pro
 355 360 365
 Val Thr Gly Pro Pro Pro Pro Leu Pro Pro Leu Gln Pro Ser Gly Met
 370 375 380
 Asp Ala Pro Pro Asn Ser Ala Thr Ser Ser Val Pro Thr Val Val Thr
 385 390 395 400
 Thr Gly Ile His His Gln Pro Pro Pro Ala Pro Pro Ser Leu Phe Thr
 405 410 415
 Ala Asp Thr Tyr Asp Thr Asp Gly Tyr Asn Pro Glu Ala Pro Ser Ile
 420 425 430
 Thr Asn Thr Ser Arg Pro Met Tyr Arg His Arg Val His Pro Arg Ala
 435 440 445
 Lys Leu Gly
 450 451

<210> 2665

<211> 294

<212> PRT

<213> Homo sapiens

<400> 2665

Ser His Pro Leu Leu Ser Cys Pro Glu Lys Val Ser Ala Lys Leu Arg
 1 5 10 15
 Ala Ala Ala Glu Ala Ala Ala Glu Glu Arg Arg Thr Arg Gly Ala Gly
 20 25 30
 Ser Arg Gly Ile Cys Ala Gly Leu Arg Ser Val Ala Pro Gly Pro Glu
 35 40 45

```

Pro Leu Lys Gln Glu Glu Gly Arg Arg Glu Trp Gly Ser Ser Ile Gly
 50          55          60
Thr Pro Ser Pro Cys Gly Ser Ala Gln Ala Ala Ala Ala Ala Ala
 65          70          75          80
Glu Glu Ala Thr Glu Lys Ile Pro Ala Leu Arg Pro Ala Leu Leu Trp
          85          90          95
Ala Leu Leu Ala Leu Trp Leu Cys Cys Ala Thr Pro Ala His Ala Leu
          100          105          110
Gln Cys Arg Asp Gly Tyr Glu Pro Cys Val Asn Glu Gly Met Cys Val
          115          120          125
Thr Tyr His Asn Gly Thr Gly Tyr Cys Lys Cys Pro Glu Gly Phe Leu
          130          135          140
Gly Glu Tyr Cys Gln His Arg Asp Pro Cys Glu Lys Asn Arg Cys Gln
          145          150          155          160
Asn Gly Gly Thr Cys Val Ala Gln Ala Met Leu Gly Lys Ala Thr Cys
          165          170          175
Arg Cys Ala Ser Gly Phe Thr Gly Glu Asp Cys Gln Tyr Ser Thr Ser
          180          185          190
His Pro Cys Phe Val Ser Arg Pro Cys Leu Asn Gly Gly Thr Cys His
          195          200          205
Met Leu Ser Arg Asp Thr Tyr Glu Cys Thr Cys Gln Val Gly Phe Thr
          210          215          220
Gly Arg Asn Pro Lys Cys Pro Gly Gly Asn Leu Asn Tyr Gln Phe Asn
          225          230          235          240
Gly Ile Ile Val Val Tyr Ser Gly Gly Ser Val Pro Pro Ser Gly Thr
          245          250          255
Lys Thr Ser Lys Pro Ala Glu His Asn Ala Met Gly Thr Gly Ser Lys
          260          265          270
Asn Phe Ala Ser Gly Thr Leu Trp Val Met Val Ser Gly Ala Thr Ser
          275          280          285
Thr Ser Thr Ser Thr Leu
          290          294

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<210> 2666
<211> 151
<212> PRT
<213> Homo sapiens

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```

<400> 2666
Ser Leu Ser Met Glu Ser Asn His Lys Ser Gly Asp Gly Leu Ser Gly
 1          5          10          15
Thr Gln Lys Glu Ala Ala Leu Arg Ala Leu Val Gln Arg Thr Gly Tyr
          20          25          30
Ser Leu Val Gln Glu Asn Gly Gln Arg Lys Tyr Gly Gly Pro Pro Pro
          35          40          45
Gly Trp Asp Ala Ala Pro Pro Glu Arg Gly Cys Glu Ile Phe Ile Gly
          50          55          60
Lys Leu Pro Arg Asp Leu Phe Glu Asp Glu Leu Ile Pro Leu Cys Glu
          65          70          75          80
Lys Ile Gly Lys Ile Tyr Glu Met Arg Met Met Met Asp Phe Asn Gly
          85          90          95
Asn Asn Arg Gly Tyr Ala Phe Val Thr Phe Ser Asn Lys Val Glu Ala
          100          105          110
Lys Asn Ala Ile Lys Gln Leu Asn Asn Tyr Glu Ile Arg Asn Gly Arg
          115          120          125
Leu Leu Gly Val Cys Ala Ser Val Asp Asn Cys Arg Leu Phe Val Gly
          130          135          140
Gly Ile Pro Lys Thr Lys Lys
          145          150          151

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<210> 2667
 <211> 599
 <212> PRT
 <213> Homo sapiens

<400> 2667
 Leu Leu Lys Ser Cys Gly Val Leu Leu Ser Gly Val Cys Ile Pro Cys
 1 5 10 15
 Glu Gly Lys Gly Pro Thr Val Leu Val Ile Gln Thr Ala Val Pro Gln
 20 25 30
 Asp Arg Pro Thr Lys Ser Ser Met Arg Ser Ala Ala Lys Pro Trp Asn
 35 40 45
 Pro Ala Ile Arg Ala Gly Gly His Gly Pro Asp Arg Val Arg Pro Leu
 50 55 60
 Pro Ala Ala Ser Ser Gly Met Lys Ser Ser Lys Ser Ser Thr Ser Leu
 65 70 75 80
 Ala Phe Glu Ser Arg Leu Ser Arg Leu Lys Arg Ala Ser Ser Glu Asp
 85 90 95
 Thr Leu Asn Lys Pro Gly Ser Thr Ala Ala Ser Gly Val Val Arg Leu
 100 105 110
 Lys Lys Thr Ala Thr Ala Gly Ala Ile Ser Glu Leu Thr Glu Ser Arg
 115 120 125
 Leu Arg Ser Gly Thr Gly Ala Phe Thr Thr Thr Lys Arg Thr Gly Ile
 130 135 140
 Pro Ala Pro Arg Glu Phe Ser Val Thr Val Ser Arg Glu Arg Ser Val
 145 150 155 160
 Pro Arg Gly Pro Ser Asn Pro Arg Lys Ser Val Ser Ser Pro Thr Ser
 165 170 175
 Ser Asn Thr Pro Thr Pro Thr Lys His Leu Arg Thr Pro Ser Thr Lys
 180 185 190
 Pro Lys Gln Glu Asn Glu Gly Gly Glu Lys Ala Ala Leu Glu Ser Gln
 195 200 205
 Val Arg Glu Leu Leu Ala Glu Ala Lys Ala Lys Asp Ser Glu Ile Asn
 210 215 220
 Arg Leu Arg Ser Glu Leu Lys Lys Tyr Lys Glu Lys Arg Thr Leu Asn
 225 230 235 240
 Ala Glu Gly Thr Asp Ala Leu Gly Pro Asn Val Asp Gly Thr Ser Val
 245 250 255
 Ser Pro Gly Asp Thr Glu Pro Met Ile Arg Ala Leu Glu Glu Lys Asn
 260 265 270
 Lys Asn Phe Gln Lys Glu Leu Ser Asp Leu Glu Glu Glu Asn Arg Val
 275 280 285
 Leu Lys Glu Lys Leu Ile Tyr Leu Glu His Ser Pro Asn Ser Glu Gly
 290 295 300
 Ala Ala Ser His Thr Gly Asp Ser Ser Cys Pro Thr Ser Ile Thr Gln
 305 310 315 320
 Glu Ser Ser Phe Gly Ser Pro Thr Gly Asn Gln Leu Ser Ser Asp Ile
 325 330 335
 Asp Glu Tyr Lys Lys Asn Ile His Gly Asn Ala Leu Arg Thr Ser Gly
 340 345 350
 Ser Ser Ser Ser Asp Val Thr Lys Ala Ser Leu Ser Pro Asp Ala Ser
 355 360 365
 Asp Phe Glu His Ile Thr Ala Glu Thr Pro Ser Arg Pro Leu Ser Ser
 370 375 380
 Thr Ser Asn Pro Phe Lys Ser Ser Lys Cys Ser Thr Ala Gly Ser Ser
 385 390 395 400
 Pro Asn Ser Val Ser Glu Leu Ser Leu Ala Ser Leu Thr Glu Lys Ile
 405 410 415
 Gln Lys Met Glu Glu Asn His His Ser Thr Ala Glu Glu Leu Gln Ala
 420 425 430
 Thr Leu Gln Glu Leu Ser Asp Gln Gln Met Val Gln Glu Leu Thr
 435 440 445

Ala Glu Asn Glu Lys Leu Val Asp Glu Lys Thr Ile Leu Glu Thr Ser
 450 455 460
 Phe His Gln His Arg Glu Arg Ala Glu Gln Leu Ser Gln Glu Asn Glu
 465 470 475 480
 Lys Leu Met Asn Leu Leu Gln Glu Arg Val Lys Asn Glu Glu Pro Thr
 485 490 495
 Thr Gln Glu Gly Lys Ile Ile Glu Leu Glu Gln Lys Cys Thr Gly Ile
 500 505 510
 Leu Glu Gln Gly Arg Phe Glu Arg Glu Lys Leu Leu Asn Ile Gln Gln
 515 520 525
 Gln Leu Thr Cys Ser Leu Arg Lys Val Glu Glu Glu Asn Gln Gly Ala
 530 535 540
 Leu Glu Met Ile Lys Arg Leu Lys Glu Glu Asn Glu Lys Leu Asn Glu
 545 550 555 560
 Phe Leu Glu Leu Glu Arg His Asn Asn Asn Met Met Ala Lys Thr Leu
 565 570 575
 Glu Glu Cys Arg Val Thr Leu Glu Gly Leu Lys Met Glu Asn Gly Ser
 580 585 590
 Leu Lys Ser His Leu Gln Gly
 595 599

<210> 2668
 <211> 182
 <212> PRT
 <213> Homo sapiens

<400> 2668
 Gly Glu Cys Phe Ile Met Ala Ala Val Val Gln Gln Asn Asp Leu Val
 1 5 10 15
 Phe Glu Phe Ala Ser Asn Val Met Glu Asp Glu Arg Gln Leu Gly Asp
 20 25 30
 Pro Ala Ile Phe Pro Ala Val Ile Val Glu His Val Pro Gly Ala Asp
 35 40 45
 Ile Leu Asn Ser Tyr Ala Gly Leu Ala Cys Val Glu Glu Pro Asn Asp
 50 55 60
 Met Ile Thr Glu Ser Ser Leu Asp Val Ala Glu Glu Glu Ile Ile Asp
 65 70 75 80
 Asp Asp Asp Asp Asp Ile Thr Leu Thr Val Glu Ala Ser Cys His Asp
 85 90 95
 Gly Asp Glu Thr Ile Glu Thr Ile Glu Ala Ala Glu Ala Leu Leu Asn
 100 105 110
 Met Asp Ser Pro Gly Pro Met Leu Asp Glu Lys Arg Ile Asn Asn Asn
 115 120 125
 Ile Phe Ser Ser Pro Glu Asp Asp Met Val Val Ala Pro Val Thr His
 130 135 140
 Val Ser Val Thr Leu Asp Gly Ile Pro Glu Val Met Glu Thr Gln Gln
 145 150 155 160
 Val Gln Glu Lys Tyr Ala Asp Ser Pro Gly Ala Ser Ser Pro Glu Gln
 165 170 175
 Pro Lys Arg Lys Lys Lys
 180 182

<210> 2669
 <211> 162
 <212> PRT
 <213> Homo sapiens

<221> misc_feature
 <222> (1)...(162)

<223> Xaa = any amino acid or nothing

<400> 2669
 Met Glu Val Arg Met Ser Gly Ser Val Ala Val Thr Arg Ala Ile Ala
 1 5 10 15
 Val Pro Gly Leu Leu Leu Leu Ile Ile Ala Thr Ala Leu Ser Leu
 20 25 30
 Leu Ile Gly Ala Lys Ser Leu Pro Ala Ser Val Val Leu Glu Ala Phe
 35 40 45
 Ser Gly Thr Cys Gln Ser Ala Asp Cys Thr Ile Val Leu Asp Ala Arg
 50 55 60
 Leu Pro Arg Thr Leu Ala Gly Leu Leu Ala Gly Gly Ala Leu Gly Leu
 65 70 75 80
 Ala Gly Ala Leu Met Gln Thr Leu Thr Arg Asn Pro Leu Ala Asp Pro
 85 90 95
 Gly Leu Leu Gly Val Asn Ala Gly Ala Ser Phe Ala Ile Val Leu Gly
 100 105 110
 Ala Ala Leu Phe Gly Tyr Ser Ser Ala Gln Glu Gln Leu Ala Met Ala
 115 120 125
 Phe Ala Gly Ala Leu Val Ala Ser Leu Ile Val Ala Phe Thr Gly Ser
 130 135 140
 Gln Gly Gly Gly Gln Leu Ser Pro Val Arg Leu Thr Leu Ala Gly Val
 145 150 155 160
 Xaa Leu
 162

<210> 2670

<211> 146

<212> PRT

<213> Homo sapiens

<400> 2670
 Lys Met Asn Gln Val Ala Val Val Ile Gly Gly Gly Gln Thr Leu Gly
 1 5 10 15
 Ala Phe Leu Cys His Gly Leu Ala Ala Glu Gly Tyr Arg Val Ala Val
 20 25 30
 Val Asp Ile Gln Ser Asp Lys Ala Ala Asn Val Ala Gln Glu Ile Asn
 35 40 45
 Ala Glu Tyr Gly Glu Ser Met Ala Tyr Gly Phe Gly Ala Asp Ala Thr
 50 55 60
 Ser Glu Gln Ser Val Leu Ala Leu Ser Arg Gly Val Asp Glu Ile Phe
 65 70 75 80
 Gly Arg Val Asp Leu Leu Val Tyr Ser Ala Gly Ile Ala Lys Ala Ala
 85 90 95
 Phe Ile Ser Asp Phe Gln Leu Gly Asp Phe Asp Arg Ser Leu Gln Val
 100 105 110
 Asn Leu Val Gly Tyr Phe Leu Cys Ala Arg Glu Phe Ser Arg Leu Met
 115 120 125
 Ile Arg Asp Gly Ile Gln Gly Arg Ile Ile Gln Ile Asn Ser Lys Ser
 130 135 140
 Asp Glu
 145 146

<210> 2671

<211> 151

<212> PRT

<213> Homo sapiens

<400> 2671

```

Arg His Arg Thr Ala Gly Pro Gly Ser Thr Ile Ser Ser Arg Thr Asp
 1          5          10          15
Ser Ala Ser Ala Pro Ala Ala Arg Ala Met Pro Cys Glu Tyr Thr Tyr
          20          25          30
Ala Lys Leu Thr Ser Asp Cys Ser Arg Pro Ser Leu Gln Trp Tyr Thr
          35          40          45
Arg Ala Gln Ser Lys Met Arg Arg Pro Arg Leu Leu Leu Lys Asp Ile
          50          55          60
Leu Lys Cys Thr Leu Leu Val Phe Gly Val Arg Ile Leu Tyr Ile Leu
          65          70          75          80
Lys Leu Asn Tyr Thr Thr Glu Glu Cys Asp Met Lys Asn Met His Tyr
          85          90          95
Val Asp Pro Asp His Val Lys Arg Ala Gln Lys Tyr Ala Gln Gln Val
          100          105          110
Leu Gln Lys Glu Ser Pro Pro Lys Phe Ala Lys Thr Ser Met Ala Leu
          115          120          125
Leu Phe Glu His Arg Tyr Ser Val Asp Leu Leu Pro Phe Val Gln Lys
          130          135          140
Ala Pro Thr Asp Ser Glu Ala
          145          150 151

```

<210> 2672

<211> 133

<212> PRT

<213> Homo sapiens

<400> 2672

```

Glu Pro Ser Asn Gly Pro Val Val Tyr Ser Ala Leu Gly Asn Glu Asp
 1          5          10          15
Asp Glu Ile Leu Leu Leu Gly Lys Asp Ile Ile Gly Thr Phe Ala Ala
          20          25          30
Ser Glu Arg Lys Met Arg Ala His Gln Val Leu Thr Phe Leu Leu Leu
          35          40          45
Phe Val Ile Thr Ser Gly Ala Ser Glu Asn Ala Ser Thr Ser Arg Gly
          50          55          60
Cys Gly Leu Asp Leu Leu Pro Gln Asn Val Tyr Leu Cys Asp Leu Asp
          65          70          75          80
Ala Ile Trp Gly Ile Val Val Glu Ala Val Ala Gly Ala Gly Ala Leu
          85          90          95
Ile Thr Leu Leu Leu Met Leu Ile Leu Leu Gly Arg Leu Pro Phe Ile
          100          105          110
Lys Glu Lys Glu Lys Lys Ser Pro Ala Val Leu His Phe Leu Phe Leu
          115          120          125
Leu Gly Thr Leu Gly
          130          133

```

<210> 2673

<211> 125

<212> PRT

<213> Homo sapiens

<400> 2673

```

Ser Ser Leu Gly Asn Glu Asp Asp Glu Ile Leu Ser Leu Ala Lys Asp
 1          5          10          15
Ile Thr Gly Met Phe Val Ala Ser His Arg Lys Met Arg Ala His Gln
          20          25          30

```



```

Val Leu Thr Phe Leu Leu Leu Phe Val Ile Thr Ser Val Ala Ser Glu
      35      40      45
Asn Ala Ser Thr Ser Arg Gly Cys Gly Leu Asp Leu Leu Pro Gln Tyr
      50      55      60
Val Ser Leu Cys Asp Leu Asp Ala Ile Trp Gly Ile Val Val Glu Ala
      65      70      75      80
Ala Ala Gly Ala Gly Ala Leu Ile Thr Leu Leu Met Leu Ile Leu
      85      90      95
Leu Val Arg Leu Pro Phe Phe Lys Glu Lys Glu Lys Lys Ser Pro Val
      100      105      110
Gly Leu His Phe Leu Phe Leu Leu Gly Thr Leu Gly Pro
      115      120      125

```

<210> 2674
 <211> 310
 <212> PRT
 <213> Homo sapiens

```

      <400> 2674
Glu Arg Leu Cys Phe Pro Cys Met Gln Ser Lys Ile Tyr Ser Tyr Met
 1      5      10      15
Ser Pro Asn Lys Cys Ser Gly Met Arg Phe Pro Leu Gln Glu Glu Asn
      20      25      30
Ser Val Thr His His Glu Val Lys Cys Gln Gly Lys Pro Leu Ala Gly
      35      40      45
Ile Tyr Arg Lys Arg Glu Glu Lys Arg Asn Ala Gly Asn Ala Val Arg
      50      55      60
Ser Ala Met Lys Ser Glu Glu Gln Lys Ile Lys Asp Ala Arg Lys Gly
      65      70      75      80
Pro Leu Val Pro Phe Pro Asn Gln Lys Ser Glu Ala Ala Glu Pro Pro
      85      90      95
Lys Thr Pro Pro Ser Ser Cys Asp Ser Thr Asn Ala Ala Ile Ala Lys
      100      105      110
Gln Ala Leu Lys Lys Pro Ile Lys Gly Lys Gln Ala Pro Arg Lys Lys
      115      120      125
Ala Gln Gly Lys Thr Gln Gln Asn Arg Lys Leu Thr Asp Phe Tyr Pro
      130      135      140
Val Arg Arg Ser Ser Arg Lys Ser Lys Ala Glu Leu Gln Ser Glu Glu
      145      150      155      160
Arg Lys Arg Ile Asp Glu Leu Ile Glu Ser Gly Lys Glu Glu Gly Met
      165      170      175
Lys Ile Asp Leu Ile Asp Gly Lys Gly Arg Gly Val Ile Ala Thr Lys
      180      185      190
Gln Phe Ser Arg Gly Asp Phe Val Val Glu Tyr His Gly Asp Leu Ile
      195      200      205
Glu Ile Thr Asp Ala Lys Lys Arg Glu Ala Leu Tyr Ala Gln Asp Pro
      210      215      220
Ser Thr Gly Cys Tyr Met Tyr Tyr Phe Gln Tyr Leu Ser Lys Thr Tyr
      225      230      235      240
Cys Val Asp Ala Thr Arg Glu Thr Asn Arg Leu Gly Arg Leu Ile Asn
      245      250      255
His Ser Lys Cys Gly Asn Cys Gln Thr Lys Leu His Asp Ile Asp Gly
      260      265      270
Val Pro His Leu Ile Leu Ile Ala Ser Arg Asp Ile Ala Ala Gly Glu
      275      280      285
Glu Leu Leu Tyr Asp Tyr Gly Asp Arg Ser Lys Ala Ser Ile Glu Ala
      290      295      300
His Pro Trp Leu Lys His
      305      310

```

<210> 2675
 <211> 288
 <212> PRT
 <213> Homo sapiens

<400> 2675
 Pro Gly Ser Thr Ile Ser Cys Ser Glu Leu Lys Gly Thr Gln Cys Arg
 1 5 10 15
 Ala Thr Ala Gly Ser Arg Gly Arg Arg Pro Pro Met Thr Cys Trp Leu
 20 25 30
 Arg Gly Val Thr Ala Thr Phe Gly Arg Pro Ala Glu Trp Pro Gly Tyr
 35 40 45
 Leu Ser His Leu Cys Gly Arg Ser Ala Ala Met Asp Leu Gly Pro Met
 50 55 60
 Arg Lys Ser Tyr Arg Gly Asp Arg Glu Ala Phe Glu Glu Thr His Leu
 65 70 75 80
 Thr Ser Leu Asp Pro Val Lys Gln Phe Ala Ala Trp Phe Glu Glu Ala
 85 90 95
 Val Gln Cys Pro Asp Ile Gly Glu Ala Asn Ala Met Cys Leu Ala Thr
 100 105 110
 Cys Thr Arg Asp Gly Lys Pro Ser Ala Arg Met Leu Leu Leu Lys Gly
 115 120 125
 Phe Gly Lys Asp Gly Phe Arg Phe Phe Thr Asn Phe Glu Ser Arg Lys
 130 135 140
 Gly Lys Glu Leu Asp Ser Asn Pro Phe Ala Ser Leu Val Phe Tyr Trp
 145 150 155 160
 Glu Pro Leu Asn Arg Gln Val Arg Val Glu Gly Pro Val Lys Lys Leu
 165 170 175
 Pro Glu Glu Glu Ala Glu Cys Tyr Phe His Ser Arg Pro Lys Ser Ser
 180 185 190
 Gln Ile Gly Ala Val Val Ser His Gln Ser Ser Val Ile Pro Asp Arg
 195 200 205
 Glu Tyr Leu Arg Lys Lys Asn Glu Glu Leu Glu Gln Leu Tyr Gln Asp
 210 215 220
 Gln Glu Val Pro Lys Pro Lys Ser Trp Gly Gly Tyr Val Leu Tyr Pro
 225 230 235 240
 Gln Val Met Glu Phe Trp Gln Gly Gln Thr Asn Arg Leu His Asp Arg
 245 250 255
 Ile Val Phe Arg Arg Gly Leu Pro Thr Gly Asp Ser Pro Leu Gly Pro
 260 265 270
 Met Thr His Arg Gly Glu Glu Asp Trp Leu Tyr Glu Arg Leu Ala Pro
 275 280 285 288

<210> 2676
 <211> 327
 <212> PRT
 <213> Homo sapiens

<400> 2676
 Ala Arg Ala Ala His Cys Gly Ile Cys Arg Leu Val Arg Trp Trp
 1 5 10 15
 Arg Lys Arg Arg Ser Val Met Gly Ile Gln Thr Ser Pro Val Leu Leu
 20 25 30
 Ala Ser Leu Gly Val Gly Leu Val Thr Leu Leu Gly Leu Ala Val Gly
 35 40 45
 Ser Tyr Leu Val Arg Arg Ser Arg Arg Pro Gln Val Thr Leu Leu Asp
 50 55 60

```

Pro Asn Glu Lys Tyr Leu Leu Arg Leu Leu Asp Lys Thr Thr Val Ser
65      70      75      80
His Asn Thr Lys Arg Phe Arg Phe Ala Leu Pro Thr Ala His His Thr
      85      90      95
Leu Gly Leu Pro Val Gly Lys His Ile Tyr Leu Ser Thr Arg Ile Asp
      100     105     110
Gly Ser Leu Val Ile Arg Pro Tyr Thr Pro Val Thr Ser Asp Glu Asp
      115     120     125
Gln Gly Tyr Val Asp Leu Val Ile Lys Val Tyr Leu Lys Gly Val His
      130     135     140
Pro Lys Phe Pro Glu Gly Gly Lys Met Ser Gln Tyr Leu Asp Ser Leu
145     150     155     160
Lys Val Gly Asp Val Val Glu Phe Arg Gly Pro Ser Gly Leu Leu Thr
      165     170     175
Tyr Thr Gly Lys Gly His Phe Asn Ile Gln Pro Asn Lys Lys Ser Pro
      180     185     190
Pro Glu Pro Arg Val Ala Lys Lys Leu Gly Met Ile Ala Gly Gly Thr
      195     200     205
Gly Ile Thr Pro Met Leu Gln Leu Ile Arg Ala Ile Leu Lys Val Pro
      210     215     220
Glu Asp Pro Thr Gln Cys Phe Leu Leu Phe Ala Asn Gln Thr Glu Lys
225     230     235     240
Asp Ile Ile Leu Arg Glu Asp Leu Glu Glu Leu Gln Ala Arg Tyr Pro
      245     250     255
Asn Arg Phe Lys Leu Trp Phe Thr Leu Asp His Pro Pro Lys Asp Trp
      260     265     270
Ala Tyr Ser Lys Gly Phe Val Thr Ala Asp Met Ile Arg Glu His Leu
      275     280     285
Pro Ala Pro Gly Asp Asp Val Leu Val Leu Leu Cys Gly Pro Pro Pro
290     295     300
Met Val Gln Leu Ala Cys His Pro Asn Leu Asp Lys Leu Gly Tyr Ser
305     310     315     320
Gln Lys Met Arg Phe Thr Tyr
      325     327

```

<210> 2677
 <211> 322
 <212> PRT
 <213> Homo sapiens

```

<400> 2677
Leu Gln Ser Ala Gly Glu Gly Val Thr His Val Leu Ile Leu Leu Glu
1      5      10      15
Ser Pro Ala Arg Pro Val Ala Ala Val Thr Gln Val Gln Arg Arg Arg
      20      25      30
Tyr His Arg Leu Ser Asp Met Ser Met Leu Ala Glu Arg Arg Arg Lys
      35      40      45
Gln Lys Trp Ala Val Asp Pro Gln Asn Thr Ala Trp Ser Asn Asp Asp
      50      55      60
Ser Lys Phe Gly Gln Arg Met Leu Glu Lys Met Gly Trp Ser Lys Gly
65      70      75      80
Lys Gly Leu Gly Ala Gln Glu Gln Gly Ala Thr Asp His Ile Lys Val
      85      90      95
Gln Val Lys Asn Asn His Leu Gly Leu Gly Ala Thr Ile Asn Asn Glu
      100     105     110
Asp Asn Trp Ile Ala His Gln Asp Phe Asn Gln Leu Leu Ala Glu
      115     120     125
Leu Asn Thr Cys His Gly Gln Glu Thr Thr Asp Ser Ser Asp Lys Lys
      130     135     140
Glu Lys Lys Ser Phe Ser Leu Glu Glu Lys Ser Lys Ile Ser Lys Asn
145     150     155     160

```

```

Arg Val His Tyr Met Lys Phe Thr Lys Gly Lys Asp Leu Ser Ser Arg
      165                      170                      175
Ser Lys Thr Asp Leu Asp Cys Ile Phe Gly Lys Arg Gln Ser Lys Lys
      180                      185                      190
Thr Pro Glu Gly Asp Ala Ser Pro Ser Thr Pro Glu Glu Asn Glu Thr
      195                      200                      205
Thr Thr Thr Ser Ala Phe Thr Ile Gln Glu Tyr Phe Ala Lys Arg Met
      210                      215                      220
Ala Ala Leu Lys Asn Lys Pro Gln Val Pro Val Pro Gly Ser Asp Ile
225                      230                      235                      240
Ser Glu Thr Gln Val Glu Arg Lys Arg Gly Lys Lys Arg Asn Lys Glu
      245                      250                      255
Ala Thr Gly Lys Asp Val Glu Ser Tyr Leu Gln Pro Lys Ala Lys Arg
      260                      265                      270
His Thr Glu Gly Lys Pro Glu Arg Ala Glu Ala Gln Glu Arg Val Ala
      275                      280                      285
Lys Lys Lys Ser Ala Pro Ala Glu Glu Gln Leu Arg Gly Pro Cys Trp
      290                      295                      300
Asp Gln Ser Ser Lys Ala Ser Ala Gln Asp Ala Gly Asp His Val Gln
305                      310                      315                      320
Pro Ala
322

```

```

<210> 2678
<211> 88
<212> PRT
<213> Homo sapiens

```

```

<400> 2678
Gly Ser Ala Ala Met Lys Val Lys Ile Lys Cys Trp Asn Gly Val Ala
 1                      5                      10                      15
Thr Trp Leu Trp Val Ala Asn Asp Glu Asn Cys Gly Ile Cys Arg Met
      20                      25                      30
Ala Phe Asn Gly Cys Cys Pro Asp Cys Lys Val Pro Gly Asp Asp Cys
      35                      40                      45
Pro Leu Val Trp Gly Gln Cys Ser His Cys Phe His Met His Cys Ile
      50                      55                      60
Leu Lys Trp Leu His Ala Gln Gln Val Gln Gln His Cys Pro Met Cys
      65                      70                      75                      80
Arg Gln Glu Trp Lys Phe Lys Glu
      85                      88

```

```

<210> 2679
<211> 320
<212> PRT
<213> Homo sapiens

```

```

<400> 2679
Gln Met Glu Pro Gly Asn Asp Thr Gln Ile Ser Glu Phe Leu Leu Leu
 1                      5                      10                      15
Gly Phe Ser Gln Glu Pro Gly Leu Gln Pro Phe Leu Phe Gly Leu Phe
      20                      25                      30
Leu Ser Met Tyr Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Leu
      35                      40                      45
Ala Thr Ile Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu
      50                      55                      60
Ser Asn Leu Ser Phe Ala Asp Ile Cys Val Thr Ser Thr Thr Ile Pro
      65                      70                      75                      80

```

```

Lys Met Leu Met Asn Ile Gln Thr Gln Asn Lys Val Ile Thr Tyr Ile
      85          90          95
Ala Cys Leu Met Gln Met Tyr Phe Phe Ile Leu Phe Ala Gly Phe Glu
      100        105        110
Asn Phe Leu Leu Ser Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys
      115        120        125
His Pro Leu His Tyr Met Val Ile Met Asn Pro His Leu Cys Gly Leu
      130        135        140
Leu Val Leu Ala Ser Trp Thr Met Ser Ala Leu Tyr Ser Leu Leu Gln
      145        150        155        160
Ile Leu Met Val Val Arg Leu Ser Phe Cys Thr Ala Leu Glu Ile Pro
      165        170        175
His Phe Phe Cys Glu Leu Asn Gln Val Ile Gln Leu Ala Cys Ser Asp
      180        185        190
Ser Phe Leu Asn His Met Val Ile Tyr Phe Thr Val Ala Leu Leu Gly
      195        200        205
Gly Gly Pro Leu Thr Gly Ile Leu Tyr Ser Tyr Ser Lys Ile Ile Ser
      210        215        220
Ser Ile His Ala Ile Ser Ser Ala Gln Gly Lys Tyr Lys Ala Phe Ser
      225        230        235        240
Thr Cys Ala Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Ala Ile
      245        250        255
Leu Gly Val Tyr Leu Ser Ser Ala Ala Thr Arg Asn Ser His Ser Ser
      260        265        270
Ala Thr Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro
      275        280        285
Phe Ile Tyr Ser Leu Arg Asn Lys Asp Ile Lys Arg Ala Leu Gly Ile
      290        295        300
His Leu Leu Trp Gly Thr Met Lys Gly Gln Phe Phe Lys Lys Cys Pro
      305        310        315        320

```

<210> 2680
 <211> 846
 <212> PRT
 <213> Homo sapiens

```

<400> 2680
Ile Pro Phe Leu Lys Ser Cys Cys Cys Cys Cys Leu Phe Asp Phe Pro
  1      5      10      15
Pro Pro Pro Leu Asp Gln Val Gln Glu Glu Glu Cys Glu Val Glu Arg
      20      25      30
Val Thr Glu His Gly Thr Pro Lys Pro Phe Arg Lys Phe Asp Ser Val
      35      40      45
Ala Phe Gly Glu Ser Gln Ser Glu Asp Glu Gln Phe Glu Asn Asp Leu
      50      55      60
Glu Thr Asp Pro Pro Asn Trp Gln Gln Leu Val Ser Arg Glu Val Leu
      65      70      75      80
Leu Gly Leu Lys Pro Cys Glu Ile Lys Arg Gln Glu Val Ile Asn Glu
      85      90      95
Leu Phe Tyr Thr Glu Arg Ala His Val Arg Thr Leu Lys Val Leu Asp
      100     105     110
Gln Val Phe Tyr Gln Arg Val Ser Arg Glu Gly Ile Leu Ser Pro Ser
      115     120     125
Glu Leu Arg Lys Ile Phe Ser Asn Leu Glu Asp Ile Leu Gln Leu His
      130     135     140
Ile Gly Leu Asn Glu Gln Met Lys Ala Val Arg Lys Arg Asn Glu Thr
      145     150     155     160
Ser Val Ile Asp Gln Ile Gly Glu Asp Leu Leu Thr Trp Phe Ser Gly
      165     170     175

```

Pro Gly Glu Glu Lys Leu Lys His Ala Ala Ala Thr Phe Cys Ser Asn
 180 185 190
 Gln Pro Phe Ala Leu Glu Met Ile Lys Ser Arg Gln Lys Lys Asp Ser
 195 200 205
 Arg Phe Gln Thr Phe Val Gln Asp Ala Glu Ser Asn Pro Leu Cys Arg
 210 215 220
 Arg Leu Gln Leu Lys Asp Ile Ile Pro Thr Gln Met Gln Arg Leu Thr
 225 230 235 240
 Lys Tyr Pro Leu Leu Leu Asp Asn Ile Ala Thr Tyr Thr Glu Trp Pro
 245 250 255
 Thr Glu Arg Glu Lys Val Lys Lys Ala Ala Asp His Cys Arg Gln Ile
 260 265 270
 Leu Asn Tyr Val Asn Gln Ala Val Lys Glu Ala Glu Asn Lys Gln Arg
 275 280 285
 Leu Glu Asp Tyr Gln Arg Arg Leu Asp Thr Ser Ser Leu Lys Leu Ser
 290 295 300
 Glu Tyr Pro Asn Val Glu Glu Leu Arg Asn Leu Asp Leu Thr Lys Arg
 305 310 315 320
 Lys Met Ile His Glu Gly Pro Leu Val Trp Lys Val Asn Arg Asp Lys
 325 330 335
 Thr Ile Asp Leu Tyr Thr Leu Leu Leu Glu Asp Ile Leu Val Leu Leu
 340 345 350
 Gln Lys Gln Asp Asp Arg Leu Val Leu Arg Cys His Ser Lys Ile Leu
 355 360 365
 Ala Ser Thr Ala Asp Ser Lys His Thr Phe Ser Pro Val Ile Lys Leu
 370 375 380
 Ser Thr Val Leu Val Arg Gln Val Ala Thr Asp Asn Lys Ala Leu Phe
 385 390 395 400
 Val Ile Ser Met Ser Asp Asn Gly Ala Gln Ile Tyr Glu Leu Val Ala
 405 410 415
 Gln Thr Val Ser Glu Lys Thr Val Trp Gln Asp Leu Ile Cys Arg Met
 420 425 430
 Ala Ala Ser Val Lys Glu Gln Ser Thr Lys Pro Ile Pro Leu Pro Gln
 435 440 445
 Ser Thr Pro Gly Glu Gly Asp Asn Asp Glu Glu Asp Pro Ser Lys Leu
 450 455 460
 Lys Glu Glu Gln His Gly Ile Ser Val Thr Gly Leu Gln Ser Pro Asp
 465 470 475 480
 Arg Asp Leu Gly Leu Glu Ser Thr Leu Ile Ser Ser Lys Pro Gln Ser
 485 490 495
 His Ser Leu Ser Thr Ser Gly Lys Ser Glu Val Arg Asp Leu Phe Val
 500 505 510
 Ala Glu Arg Gln Phe Ala Lys Glu Gln His Thr Asp Gly Thr Leu Lys
 515 520 525
 Glu Val Gly Glu Asp Tyr Gln Ile Ala Ile Pro Asp Ser His Leu Pro
 530 535 540
 Val Ser Glu Glu Arg Trp Ala Leu Asp Ala Leu Arg Asn Leu Gly Leu
 545 550 555 560
 Leu Lys Gln Leu Leu Val Gln Gln Leu Gly Leu Thr Glu Lys Ser Val
 565 570 575
 Gln Glu Asp Trp Gln His Phe Pro Arg Tyr Arg Thr Ala Ser Gln Gly
 580 585 590
 Pro Gln Thr Asp Ser Val Ile Gln Asn Ser Glu Asn Ile Lys Ala Tyr
 595 600 605
 His Ser Gly Glu Gly His Met Pro Phe Arg Thr Gly Thr Gly Asp Ile
 610 615 620
 Ala Thr Cys Tyr Ser Pro Arg Thr Ser Thr Glu Ser Phe Ala Pro Arg
 625 630 635 640
 Asp Ser Val Gly Leu Ala Pro Gln Asp Ser Gln Ala Ser Asn Ile Leu
 645 650 655
 Val Met Asp His Met Ile Met Thr Pro Glu Met Pro Thr Met Glu Pro
 660 665 670
 Glu Gly Gly Leu Asp Asp Ser Gly Glu His Phe Phe Asp Ala Arg Glu
 675 680 685

Ala His Ser Asp Glu Asn Pro Ser Glu Gly Asp Gly Ala Val Asn Lys
 690 695 700
 Glu Glu Lys Asp Val Asn Leu Arg Ile Ser Gly Asn Tyr Leu Ile Leu
 705 710 715 720
 Asp Gly Tyr Asp Pro Val Gln Glu Ser Ser Thr Asp Glu Glu Val Ala
 725 730 735
 Ser Ser Leu Thr Leu Gln Pro Met Thr Gly Ile Pro Ala Val Glu Ser
 740 745 750
 Thr His Gln Gln Gln His Ser Pro Gln Asn Thr His Ser Asp Gly Ala
 755 760 765
 Ile Ser Pro Phe Thr Pro Glu Phe Leu Val Gln Gln Arg Trp Gly Ala
 770 775 780
 Met Glu Tyr Ser Cys Phe Glu Ile Gln Ser Pro Ser Ser Cys Ala Asp
 785 790 795 800
 Ser Gln Ser Gln Ile Met Glu Tyr Ile His Lys Ile Glu Ala Asp Leu
 805 810 815
 Glu His Leu Lys Lys Val Glu Glu Ser Tyr Thr Ile Leu Cys Gln Arg
 820 825 830
 Leu Ala Gly Ser Ala Leu Thr Asp Lys His Ser Asp Lys Ser
 835 840 845 846

<210> 2681
 <211> 700
 <212> PRT
 <213> Homo sapiens

<400> 2681
 Ala Val Glu Phe Ala Glu Gly Ala Leu Thr Met Ala Pro Trp Pro Glu
 1 5 10 15
 Leu Gly Asp Ala Gln Pro Asn Pro Asp Lys Tyr Leu Glu Gly Ala Ala
 20 25 30
 Gly Gln Gln Pro Thr Ala Pro Asp Lys Ser Lys Glu Thr Asn Lys Thr
 35 40 45
 Asp Asn Thr Glu Ala Pro Val Thr Lys Ile Glu Leu Leu Pro Ser Tyr
 50 55 60
 Ser Thr Ala Thr Leu Ile Asp Glu Pro Thr Glu Val Asp Asp Pro Trp
 65 70 75 80
 Asn Leu Pro Thr Leu Gln Asp Ser Gly Ile Lys Trp Ser Glu Arg Asp
 85 90 95
 Thr Lys Gly Lys Ile Leu Cys Phe Phe Gln Gly Ile Gly Arg Leu Ile
 100 105 110
 Leu Leu Leu Gly Phe Leu Tyr Phe Phe Val Cys Ser Leu Asp Ile Leu
 115 120 125
 Ser Ser Ala Phe Gln Leu Val Gly Gly Lys Met Ala Gly Gln Phe Phe
 130 135 140
 Ser Asn Ser Ser Ile Met Ser Asn Pro Leu Leu Gly Leu Val Ile Gly
 145 150 155 160
 Val Leu Val Thr Val Leu Val Gln Ser Ser Ser Thr Ser Thr Ser Ile
 165 170 175
 Val Val Ser Met Val Ser Ser Ser Leu Leu Thr Val Arg Ala Ala Ile
 180 185 190
 Pro Ile Ile Met Gly Ala Asn Ile Gly Thr Ser Ile Thr Asn Thr Ile
 195 200 205
 Val Ala Leu Met Gln Val Gly Asp Arg Ser Glu Phe Arg Arg Ala Phe
 210 215 220
 Ala Gly Ala Thr Val His Asp Phe Phe Asn Trp Leu Ser Val Leu Val
 225 230 235 240
 Leu Leu Pro Val Glu Val Ala Thr His Tyr Leu Glu Ile Ile Thr Gln
 245 250 255
 Leu Ile Val Glu Ser Phe His Phe Lys Asn Gly Glu Asp Ala Pro Asp
 260 265 270

```

Leu Leu Lys Val Ile Thr Lys Pro Phe Thr Lys Leu Ile Val Gln Leu
275 280 285
Asp Lys Lys Val Ile Ser Gln Ile Ala Met Asn Asp Glu Lys Ala Lys
290 295 300
Asn Lys Ser Leu Val Lys Ile Trp Cys Lys Thr Phe Thr Asn Lys Thr
305 310 315 320
Gln Ile Asn Val Thr Val Pro Ser Thr Ala Asn Cys Thr Ser Pro Ser
325 330 335
Leu Cys Trp Thr Asp Gly Ile Gln Asn Trp Thr Met Lys Asn Val Thr
340 345 350
Tyr Lys Glu Asn Ile Ala Lys Cys Gln His Ile Phe Val Asn Phe His
355 360 365
Leu Pro Asp Leu Ala Val Gly Thr Ile Leu Leu Ile Leu Ser Leu Leu
370 375 380
Val Leu Cys Gly Cys Leu Ile Met Ile Val Lys Ile Leu Gly Ser Val
385 390 395 400
Leu Lys Gly Gln Val Ala Thr Val Ile Lys Lys Thr Ile Asn Thr Asp
405 410 415
Phe Pro Phe Pro Phe Ala Trp Leu Thr Gly Tyr Leu Ala Ile Leu Val
420 425 430
Gly Ala Gly Met Thr Phe Ile Val Gln Ser Ser Ser Val Phe Thr Ser
435 440 445
Ala Leu Thr Pro Leu Ile Gly Ile Gly Val Ile Thr Ile Glu Arg Ala
450 455 460
Tyr Pro Leu Thr Leu Gly Ser Asn Ile Gly Thr Thr Thr Thr Ala Ile
465 470 475 480
Leu Ala Ala Leu Ala Ser Pro Gly Asn Ala Leu Arg Ser Ser Leu Gln
485 490 495
Ile Ala Leu Cys His Phe Phe Phe Asn Ile Ser Gly Ile Leu Leu Trp
500 505 510
Tyr Pro Ile Pro Phe Thr Arg Leu Pro Ile Arg Met Ala Lys Gly Leu
515 520 525
Gly Asn Ile Ser Ala Lys Tyr Arg Trp Phe Ala Val Phe Tyr Leu Ile
530 535 540
Ile Phe Phe Phe Leu Ile Pro Leu Thr Val Phe Gly Leu Ser Leu Ala
545 550 555 560
Gly Trp Arg Val Leu Val Gly Val Gly Val Pro Val Val Phe Ile Ile
565 570 575
Ile Leu Val Leu Cys Leu Arg Leu Leu Gln Ser Arg Cys Pro Arg Val
580 585 590
Leu Pro Lys Lys Leu Gln Asn Trp Asn Phe Leu Pro Leu Trp Met Arg
595 600 605
Ser Leu Lys Pro Trp Asp Ala Val Val Ser Lys Phe Thr Gly Cys Phe
610 615 620
Gln Met Arg Cys Cys Cys Cys Cys Arg Val Cys Cys Arg Ala Cys Cys
625 630 635 640
Leu Leu Cys Gly Cys Pro Lys Cys Cys Arg Cys Ser Lys Cys Cys Glu
645 650 655
Asp Leu Glu Glu Ala Gln Glu Gly Gln Asp Val Pro Val Lys Ala Pro
660 665 670
Glu Thr Phe Asp Asn Ile Thr Ile Ser Arg Glu Ala Gln Gly Glu Val
675 680 685
Pro Ala Ser Asp Ser Lys Thr Glu Cys Thr Ala Leu
690 695 700

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<210> 2682
 <211> 448
 <212> PRT
 <213> Homo sapiens

<400> 2682


```

Ser Gln Gln Gly Ser Gln Pro His Arg Gln Gly Pro Pro Ser Leu Leu
 1      5      10      15
Thr Ala Pro His Ser Leu Asp Leu Pro Ala Leu Pro Pro Gly Pro Arg
      20      25      30
Gly Ser Gln Gly Lys Leu Arg Arg Val Leu Val Pro Met Ser Val Lys
      35      40      45
Pro Ser Trp Gly Pro Gly Pro Ser Glu Gly Val Thr Ala Val Pro Thr
      50      55      60
Ser Asp Leu Gly Glu Ile His Asn Trp Thr Glu Leu Leu Asp Leu Phe
      65      70      75      80
Asn His Thr Leu Ser Glu Cys His Val Glu Leu Ser Gln Ser Thr Lys
      85      90      95
Arg Val Val Leu Phe Ala Leu Tyr Leu Ala Met Phe Val Val Gly Leu
      100      105      110
Val Glu Asn Leu Leu Val Ile Cys Val Asn Trp Arg Gly Ser Gly Arg
      115      120      125
Ala Gly Leu Met Asn Leu Tyr Ile Leu Asn Met Ala Ile Ala Asp Leu
      130      135      140
Gly Ile Val Leu Ser Leu Pro Val Trp Met Leu Glu Val Thr Leu Asp
      145      150      155      160
Tyr Thr Trp Leu Trp Gly Ser Phe Ser Cys Arg Phe Thr His Tyr Phe
      165      170      175
Tyr Phe Val Asn Met Tyr Ser Ser Ile Phe Phe Leu Val Cys Leu Ser
      180      185      190
Val Asp Arg Tyr Val Thr Leu Thr Ser Ala Ser Pro Ser Trp Gln Arg
      195      200      205
Tyr Gln His Arg Val Arg Arg Ala Met Cys Ala Gly Ile Trp Val Leu
      210      215      220
Ser Ala Ile Ile Pro Leu Pro Glu Val Val His Ile Gln Leu Val Glu
      225      230      235      240
Gly Pro Glu Pro Met Cys Leu Phe Met Ala Pro Phe Glu Thr Tyr Ser
      245      250      255
Thr Trp Ala Leu Ala Val Ala Leu Ser Thr Thr Ile Leu Gly Phe Leu
      260      265      270
Leu Pro Phe Pro Leu Ile Thr Val Phe Asn Val Leu Thr Ala Cys Arg
      275      280      285
Leu Arg Gln Pro Gly Gln Pro Lys Ser Arg Arg His Cys Leu Leu Leu
      290      295      300
Cys Ala Tyr Val Ala Val Phe Val Met Cys Trp Leu Pro Tyr His Val
      305      310      315      320
Thr Leu Leu Leu Leu Thr Leu His Gly Thr His Ile Ser Leu His Cys
      325      330      335
His Leu Val His Leu Leu Tyr Phe Phe Tyr Asp Val Ile Asp Cys Phe
      340      345      350
Ser Met Leu His Cys Val Ile Asn Pro Ile Leu Tyr Asn Phe Leu Ser
      355      360      365
Pro His Phe Arg Gly Arg Leu Leu Asn Ala Val Val His Tyr Leu Pro
      370      375      380
Lys Asp Gln Thr Lys Ala Gly Thr Cys Ala Ser Ser Ser Ser Cys Ser
      385      390      395      400
Thr Gln His Ser Ile Ile Ile Thr Lys Gly Asp Ser Gln Pro Ala Ala
      405      410      415
Ala Ala Pro His Pro Glu Pro Ser Leu Ser Phe Gln Ala His His Leu
      420      425      430
Leu Pro Asn Thr Ser Pro Ile Ser Pro Thr Gln Pro Leu Thr Pro Ser
      435      440      445      448

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<210> 2683

<211> 294

<212> PRT

<213> Homo sapiens

<400> 2683

Ala Ala Gly Ala Gly Ala Asp Gly Arg Glu Pro Ala Ser Glu Arg Ala
 1 5 10 15
 Ser Arg Ala Glu Pro Pro Ala Val Ala Met Gly Gln Asn Asp Leu Met
 20 25 30
 Gly Thr Ala Glu Asp Phe Ala Asp Gln Phe Leu Arg Val Thr Lys Gln
 35 40 45
 Tyr Leu Pro His Val Ala Arg Leu Cys Leu Ile Ser Thr Phe Leu Glu
 50 55 60
 Asp Gly Ile Arg Met Trp Phe Gln Trp Ser Glu Gln Arg Asp Tyr Ile
 65 70 75 80
 Asp Thr Thr Trp Asn Cys Gly Tyr Leu Leu Ala Ser Ser Phe Val Phe
 85 90 95
 Leu Asn Leu Leu Gly Gln Leu Thr Gly Cys Val Leu Val Leu Ser Arg
 100 105 110
 Asn Phe Val Gln Tyr Ala Cys Phe Gly Leu Phe Gly Ile Ile Ala Leu
 115 120 125
 Gln Thr Ile Ala Tyr Ser Ile Leu Trp Asp Leu Lys Phe Leu Met Arg
 130 135 140
 Asn Leu Ala Leu Gly Gly Gly Leu Leu Leu Leu Ala Glu Ser Arg
 145 150 155 160
 Ser Glu Gly Lys Ser Met Phe Ala Gly Val Pro Thr Met Arg Glu Ser
 165 170 175
 Ser Pro Lys Gln Tyr Met Gln Leu Gly Gly Arg Val Leu Leu Val Leu
 180 185 190
 Met Phe Met Thr Leu Leu His Phe Asp Ala Ser Phe Phe Ser Ile Val
 195 200 205
 Gln Asn Ile Val Gly Thr Ala Leu Met Ile Leu Val Ala Ile Gly Phe
 210 215 220
 Lys Thr Lys Leu Ala Ala Leu Thr Leu Val Val Trp Leu Phe Ala Ile
 225 230 235 240
 Asn Val Tyr Phe Asn Ala Phe Trp Thr Ile Pro Val Tyr Lys Pro Met
 245 250 255
 His Asp Phe Leu Lys Tyr Asp Phe Phe Gln Thr Met Ser Val Ile Gly
 260 265 270
 Gly Leu Leu Leu Val Val Ala Leu Gly Pro Gly Gly Val Ser Met Asp
 275 280 285
 Glu Lys Lys Lys Glu Trp
 290 294

<210> 2684

<211> 501

<212> PRT

<213> Homo sapiens

<400> 2684

Gln Ala Trp Ser Leu Gln Val Ala Leu Ser Pro Phe Phe Phe Pro Ala
 1 5 10 15
 Ser Pro Ser Asn Ser Phe Ala Ala Ala Val Pro Gln Leu Leu Phe Pro
 20 25 30
 Glu Leu Pro Leu Pro His Val Pro Gly Gln Glu Ser Ala Lys Arg Arg
 35 40 45
 Ser Ala Arg Arg Phe Leu Ile Met Ser Glu Leu Thr Lys Glu Leu Met
 50 55 60
 Glu Leu Val Trp Gly Thr Lys Ser Ser Pro Gly Leu Ser Asp Thr Ile
 65 70 75 80
 Phe Cys Arg Trp Thr Gln Gly Phe Val Phe Ser Glu Ser Glu Gly Ser
 85 90 95

Ala Leu Glu Gln Phe Glu Gly Gly Pro Cys Ala Val Ile Ala Pro Val
 100 105 110
 Gln Ala Phe Leu Leu Lys Lys Leu Leu Phe Ser Ser Glu Lys Ser Ser
 115 120 125
 Trp Arg Asp Cys Ser Gln Glu Glu Lys Glu Leu Leu Cys His Thr
 130 135 140
 Leu Cys Asp Ile Leu Glu Ser Ala Cys Cys Asp His Ser Gly Ser Tyr
 145 150 155 160
 Cys Leu Val Ser Trp Leu Arg Gly Lys Thr Thr Glu Glu Thr Ala Ser
 165 170 175
 Ile Ser Gly Ser Pro Ala Glu Ser Ser Cys Gln Val Glu His Ser Ser
 180 185 190
 Ala Leu Ala Val Glu Glu Leu Gly Phe Glu Arg Phe His Ala Leu Ile
 195 200 205
 Gln Lys Arg Ser Phe Arg Ser Leu Pro Glu Leu Lys Asp Ala Val Leu
 210 215 220
 Asp Gln Tyr Ser Met Trp Gly Asn Lys Phe Gly Val Leu Leu Phe Leu
 225 230 235 240
 Tyr Ser Val Leu Leu Thr Lys Gly Ile Glu Asn Ile Lys Asn Glu Ile
 245 250 255
 Glu Asp Ala Ser Glu Pro Leu Ile Asp Pro Val Tyr Gly His Gly Ser
 260 265 270
 Gln Ser Leu Ile Asn Leu Leu Leu Thr Gly His Ala Val Ser Asn Val
 275 280 285
 Trp Asp Gly Asp Arg Glu Cys Ser Gly Met Lys Leu Leu Gly Ile His
 290 295 300
 Glu Gln Ala Ala Val Gly Phe Leu Thr Leu Met Glu Ala Leu Arg Tyr
 305 310 315 320
 Cys Lys Val Gly Ser Tyr Leu Lys Ile Ser Lys Ile Pro Tyr Leu Asp
 325 330 335
 Cys Leu Ala Ser Glu Thr His Leu Thr Val Phe Phe Ala Lys Asp Met
 340 345 350
 Ala Leu Val Ala Pro Glu Ala Pro Ser Glu Gln Ala Arg Arg Val Phe
 355 360 365
 Gln Thr Tyr Asp Pro Glu Asp Asn Gly Phe Ile Pro Asp Ser Leu Leu
 370 375 380
 Glu Asp Val Met Lys Ala Leu Asp Leu Val Ser Asp Pro Glu Tyr Ile
 385 390 395 400
 Asn Leu Met Lys Asn Lys Leu Asp Pro Glu Gly Leu Gly Ile Ile Leu
 405 410 415
 Leu Gly Pro Phe Leu Gln Glu Phe Phe Pro Asp Gln Gly Ser Ser Gly
 420 425 430
 Pro Glu Ser Phe Thr Val Tyr His Tyr Asn Gly Leu Lys Gln Ser Asn
 435 440 445
 Tyr Asn Glu Lys Val Met Tyr Val Glu Gly Thr Ala Val Val Met Gly
 450 455 460
 Phe Glu Asp Pro Met Leu Gln Thr Asp Asp Thr Pro Ile Lys Arg Cys
 465 470 475 480
 Leu Gln Thr Lys Trp Pro Tyr Ile Glu Leu Leu Trp Thr Thr Asp Arg
 485 490 495
 Ser Pro Ser Leu Asn
 500 501

<210> 2685

<211> 949

<212> PRT

<213> Homo sapiens

<400> 2685

Thr Arg Thr Lys Arg Arg Leu Gly Arg Glu Lys Ala Met Ala Ser Pro
 1 5 10 15

Pro Arg Gly Trp Gly Cys Gly Glu Leu Leu Leu Pro Phe Met Leu Leu
 20 25 30
 Gly Thr Leu Cys Glu Pro Gly Ser Gly Gln Ile Arg Tyr Ser Met Pro
 35 40 45
 Glu Glu Leu Asp Lys Gly Ser Phe Val Gly Asn Ile Ala Lys Asp Leu
 50 55 60
 Gly Leu Glu Pro Gln Glu Leu Ala Glu Arg Gly Val Arg Ile Val Ser
 65 70 75 80
 Arg Gly Arg Thr Gln Leu Phe Ala Leu Asn Pro Arg Ser Gly Ser Leu
 85 90 95
 Val Thr Ala Gly Arg Ile Asp Arg Glu Glu Leu Cys Ala Gln Ser Pro
 100 105 110
 Leu Cys Val Val Asn Phe Asn Ile Leu Val Glu Asn Lys Met Lys Ile
 115 120 125
 Tyr Gly Val Glu Val Glu Ile Ile Asp Ile Asn Asp Asn Phe Pro Arg
 130 135 140
 Phe Arg Asp Glu Glu Leu Lys Val Lys Val Asn Glu Asn Ala Ala Ala
 145 150 155 160
 Gly Thr Arg Leu Val Leu Pro Phe Ala Arg Asp Ala Asp Val Gly Val
 165 170 175
 Asn Ser Leu Arg Ser Tyr Gln Leu Ser Ser Asn Leu His Phe Ser Leu
 180 185 190
 Asp Val Val Ser Gly Thr Asp Gly Gln Lys Tyr Pro Glu Leu Val Leu
 195 200 205
 Glu Gln Pro Leu Asp Arg Glu Lys Glu Thr Val His Asp Leu Leu Leu
 210 215 220
 Thr Ala Leu Asp Gly Gly Asp Pro Val Leu Ser Gly Thr Thr His Ile
 225 230 235 240
 Arg Val Thr Val Leu Asp Ala Asn Asp Asn Ala Pro Leu Phe Thr Pro
 245 250 255
 Ser Glu Tyr Ser Val Ser Val Pro Glu Asn Ile Pro Val Gly Thr Arg
 260 265 270
 Leu Leu Met Leu Thr Ala Thr Asp Pro Asp Glu Gly Ile Asn Gly Lys
 275 280 285
 Leu Thr Tyr Ser Phe Arg Asn Glu Glu Glu Lys Ile Ser Glu Thr Phe
 290 295 300
 Gln Leu Asp Ser Asn Leu Gly Glu Ile Ser Thr Leu Gln Ser Leu Asp
 305 310 315 320
 Tyr Glu Glu Ser Arg Phe Tyr Leu Met Glu Val Val Ala Gln Asp Gly
 325 330 335
 Gly Ala Leu Val Ala Ser Ala Lys Val Val Val Thr Val Gln Asp Val
 340 345 350
 Asn Asp Asn Ala Pro Glu Val Ile Leu Thr Ser Leu Thr Ser Ser Ile
 355 360 365
 Ser Glu Asp Cys Leu Pro Gly Thr Val Ile Ala Leu Phe Ser Val His
 370 375 380
 Asp Gly Asp Ser Gly Glu Asn Gly Glu Ile Ala Cys Ser Ile Pro Arg
 385 390 395 400
 Asn Leu Pro Phe Lys Leu Glu Lys Ser Val Asp Asn Tyr Tyr His Leu
 405 410 415
 Leu Thr Thr Arg Asp Leu Asp Arg Glu Glu Thr Ser Asp Tyr Asn Ile
 420 425 430
 Thr Leu Thr Val Met Asp His Gly Thr Pro Pro Leu Ser Thr Glu Ser
 435 440 445
 His Ile Pro Leu Lys Val Ala Asp Val Asn Asp Asn Pro Pro Asn Phe
 450 455 460
 Pro Gln Ala Ser Tyr Ser Thr Ser Val Thr Glu Asn Asn Pro Arg Gly
 465 470 475 480
 Val Ser Ile Phe Ser Val Thr Ala His Asp Pro Asp Ser Gly Asp Asn
 485 490 495
 Ala Arg Val Thr Tyr Ser Leu Ala Glu Asp Thr Phe Gln Gly Ala Pro
 500 505 510
 Leu Ser Ser Tyr Val Ser Ile Asn Ser Asp Thr Gly Val Leu Tyr Ala
 515 520 525

Leu Arg Ser Phe Asp Tyr Glu Gln Leu Arg Asp Leu Gln Leu Trp Val
 530 535 540
 Thr Ala Ser Asp Ser Gly Asn Pro Pro Leu Ser Ser Asn Val Ser Leu
 545 550 555 560
 Ser Leu Phe Val Leu Asp Gln Asn Asp Asn Thr Pro Glu Ile Leu Tyr
 565 570 575
 Pro Ala Leu Pro Thr Asp Gly Ser Thr Gly Val Glu Leu Ala Pro Arg
 580 585 590
 Ser Ala Glu Pro Gly Tyr Leu Val Thr Lys Val Val Ala Val Asp Lys
 595 600 605
 Asp Ser Gly Gln Asn Ala Trp Leu Ser Tyr Arg Leu Leu Lys Ala Ser
 610 615 620
 Glu Pro Gly Leu Phe Ala Val Gly Leu His Thr Gly Glu Val Arg Thr
 625 630 635 640
 Ala Arg Ala Leu Leu Asp Arg Asp Ala Leu Lys Gln Ser Leu Val Val
 645 650 655
 Ala Val Glu Asp His Gly Gln Pro Pro Leu Ser Ala Thr Phe Thr Val
 660 665 670
 Thr Val Ala Val Ala Asp Arg Ile Pro Asp Ile Leu Ala Asp Leu Gly
 675 680 685
 Ser Ile Lys Thr Pro Ile Asp Pro Glu Asp Leu Asp Leu Thr Leu Tyr
 690 695 700
 Leu Val Val Ala Val Ala Ala Val Ser Cys Val Phe Leu Ala Phe Val
 705 710 715 720
 Ile Val Leu Leu Val Leu Arg Leu Arg Arg Trp His Lys Ser Arg Leu
 725 730 735
 Leu Gln Ala Glu Gly Ser Arg Leu Ala Gly Val Pro Ala Ser His Phe
 740 745 750
 Val Gly Val Asp Gly Val Arg Ala Phe Leu Gln Thr Tyr Ser His Glu
 755 760 765
 Val Ser Leu Thr Ala Asp Ser Arg Lys Ser His Leu Ile Phe Pro Gln
 770 775 780
 Pro Asn Tyr Ala Asp Thr Leu Leu Ser Glu Glu Ser Cys Glu Lys Ser
 785 790 795 800
 Glu Pro Leu Leu Met Ser Asp Lys Val Asp Ala Asn Lys Glu Glu Arg
 805 810 815
 Arg Val Gln Gln Ala Pro Pro Asn Thr Asp Trp Arg Phe Ser Gln Ala
 820 825 830
 Gln Arg Pro Gly Thr Ser Gly Ser Gln Asn Gly Asp Asp Thr Gly Thr
 835 840 845
 Trp Pro Asn Asn Gln Phe Asp Thr Glu Met Leu Gln Ala Met Ile Leu
 850 855 860
 Ala Ser Ala Ser Glu Ala Ala Asp Gly Ser Ser Thr Leu Gly Gly Gly
 865 870 875 880
 Ala Gly Thr Met Gly Leu Ser Ala Arg Tyr Gly Pro Gln Phe Thr Leu
 885 890 895
 Gln His Val Leu Gln Gly Glu Leu Gly Ser Asp Tyr Arg Gln Asn Val
 900 905 910
 Tyr Ile Pro Gly Ser Asn Ala Thr Leu Thr Asn Ala Ala Gly Lys Arg
 915 920 925
 Asp Gly Lys Ala Pro Ala Gly Gly Asn Gly Asn Lys Lys Lys Ser Gly
 930 935 940
 Lys Lys Glu Lys Lys
 945 949

<210> 2686

<211> 185

<212> PRT

<213> Homo sapiens

<400> 2686

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Arg Pro Arg Arg Arg Gln Pro Ser Phe Ser Cys Arg Val Leu Val Leu
 1          5          10          15
Glu Asp Pro Pro Cys Phe Arg Phe Thr Asn Ser Met Asn Gln Glu Lys
          20          25          30
Leu Ala Lys Leu Gln Ala Gln Val Arg Ile Gly Gly Lys Gly Thr Ala
          35          40          45
Arg Arg Lys Lys Lys Val Val His Arg Thr Ala Thr Ala Asp Asp Lys
          50          55          60
Lys Leu Gln Ser Ser Leu Lys Lys Leu Ala Val Asn Asn Ile Ala Gly
          65          70          75          80
Ile Glu Glu Val Asn Met Ile Lys Asp Asp Gly Thr Val Ile His Phe
          85          90          95
Asn Asn Pro Lys Val Gln Ala Ser Leu Ser Ala Asn Thr Phe Ala Ile
          100          105          110
Thr Gly His Ala Glu Ala Lys Pro Ile Thr Glu Met Leu Pro Gly Ile
          115          120          125
Leu Ser Gln Leu Gly Ala Asp Ser Leu Thr Ser Leu Arg Lys Leu Ala
          130          135          140
Glu Gln Phe Pro Arg Gln Val Leu Asp Ser Lys Ala Pro Lys Pro Glu
          145          150          155          160
Asp Ile Asp Glu Glu Asp Asp Asp Val Pro Asp Leu Val Glu Asn Phe
          165          170          175
Asp Glu Ala Ser Lys Asn Glu Ala Asn
          180          185

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<210> 2687
<211> 421
<212> PRT
<213> Homo sapiens

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<400> 2687
Ile Pro Gly Ser Thr Ile Ser Trp Ser Pro Ala Ala Ala Arg Gly Leu
 1          5          10          15
Ser Val Cys Arg Cys Cys Arg Leu His Pro Ala Ser Ala Met Asp Leu
          20          25          30
Phe Gly Asp Leu Pro Glu Pro Glu Arg Ser Pro Arg Pro Ala Ala Gly
          35          40          45
Lys Glu Ala Gln Lys Gly Pro Leu Leu Phe Asp Asp Leu Pro Pro Ala
          50          55          60
Ser Ser Thr Asp Ser Gly Ser Gly Gly Pro Leu Leu Phe Asp Asp Leu
          65          70          75          80
Pro Pro Ala Ser Ser Gly Asp Ser Gly Ser Leu Ala Thr Ser Ile Ser
          85          90          95
Gln Met Val Lys Thr Glu Gly Lys Gly Ala Lys Arg Lys Thr Ser Glu
          100          105          110
Glu Glu Lys Asn Gly Ser Glu Glu Leu Val Glu Lys Lys Val Cys Lys
          115          120          125
Ala Ser Ser Val Ile Phe Gly Leu Lys Gly Tyr Val Ala Glu Arg Lys
          130          135          140
Gly Glu Arg Glu Glu Met Gln Asp Ala His Val Ile Leu Asn Asp Ile
          145          150          155          160
Thr Glu Glu Cys Arg Pro Pro Ser Ser Leu Ile Thr Arg Val Ser Tyr
          165          170          175
Phe Ala Val Phe Asp Gly His Gly Gly Ile Arg Ala Ser Lys Phe Ala
          180          185          190
Ala Gln Asn Leu His Gln Asn Leu Ile Arg Lys Phe Pro Lys Gly Asp
          195          200          205
Val Ile Ser Val Glu Lys Thr Val Lys Arg Cys Leu Leu Asp Thr Phe
          210          215          220
Lys His Thr Asp Glu Glu Phe Leu Lys Gln Ala Ser Ser Gln Lys Pro
          225          230          235          240

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Ala Trp Lys Asp Gly Ser Thr Ala Thr Cys Val Leu Ala Val Asp Asn
 245 250 255
 Ile Leu Tyr Ile Ala Asn Leu Gly Asp Ser Arg Ala Ile Leu Cys Arg
 260 265 270
 Tyr Asn Glu Glu Ser Gln Lys His Ala Ala Leu Ser Leu Ser Lys Glu
 275 280 285
 His Asn Pro Thr Gln Tyr Glu Glu Arg Met Arg Ile Gln Lys Ala Gly
 290 295 300
 Gly Asn Val Arg Asp Gly Arg Val Leu Gly Val Leu Glu Val Ser Arg
 305 310 315 320
 Ser Ile Gly Asp Gly Gln Tyr Lys Arg Cys Gly Val Thr Ser Val Pro
 325 330 335
 Asp Ile Arg Arg Cys Gln Leu Thr Pro Asn Asp Arg Phe Ile Leu Leu
 340 345 350
 Ala Cys Asp Gly Leu Phe Lys Val Phe Thr Pro Glu Glu Ala Val Asn
 355 360 365
 Phe Ile Leu Ser Cys Leu Glu Asp Glu Lys Ile Gln Thr Arg Glu Gly
 370 375 380
 Lys Ser Ala Ala Asp Ala Arg Tyr Glu Ala Ala Cys Asn Arg Leu Ala
 385 390 395 400
 Asn Lys Ala Val Gln Arg Gly Ser Ala Asp Asn Val Thr Val Met Val
 405 410 415
 Val Arg Ile Gly His
 420 421

<210> 2688

<211> 195

<212> PRT

<213> Homo sapiens

<400> 2688

Gly Pro Ser Gln Ser Met Ala Ala Gly Glu Leu Glu Gly Gly Lys Pro
 1 5 10 15
 Leu Ser Gly Leu Leu Asn Ala Leu Ala Gln Asp Thr Phe His Gly Tyr
 20 25 30
 Pro Gly Ile Thr Glu Glu Leu Leu Arg Ser Gln Leu Tyr Pro Glu Val
 35 40 45
 Pro Pro Glu Glu Phe Arg Pro Phe Leu Ala Lys Met Arg Gly Ile Leu
 50 55 60
 Lys Ser Ile Ala Ser Ala Asp Met Asp Phe Asn Gln Leu Glu Ala Phe
 65 70 75 80
 Leu Thr Ala Gln Thr Lys Lys Gln Gly Gly Ile Thr Ser Asp Gln Ala
 85 90 95
 Ala Val Ile Ser Lys Phe Trp Lys Ser His Lys Thr Lys Ile Arg Glu
 100 105 110
 Ser Leu Met Asn Gln Ser Arg Trp Asn Ser Gly Leu Arg Gly Leu Ser
 115 120 125
 Trp Arg Val Asp Gly Lys Ser Gln Ser Arg His Ser Ala Gln Ile His
 130 135 140
 Thr Pro Val Ala Ile Ile Glu Leu Glu Leu Gly Lys Tyr Gly Gln Glu
 145 150 155 160
 Ser Glu Phe Leu Cys Leu Glu Phe Asp Glu Val Lys Val Asn Gln Ile
 165 170 175
 Leu Lys Thr Leu Ser Glu Val Glu Glu Ser Ile Ser Thr Leu Ile Ser
 180 185 190
 Gln Pro Asn
 195

<210> 2689

<211> 113
 <212> PRT
 <213> Homo sapiens

<400> 2689
 Leu Gly Ala Met Ala Lys His His Pro Asp Leu Ile Phe Cys Arg Lys
 1 5 10 15
 Gln Ala Gly Val Ala Ile Gly Arg Leu Cys Glu Lys Cys Asp Gly Lys
 20 25 30
 Cys Val Ile Cys Asp Ser Tyr Val Arg Pro Cys Thr Leu Val Arg Ile
 35 40 45
 Cys Asp Glu Cys Asn Tyr Gly Ser Tyr Gln Gly Arg Cys Val Ile Cys
 50 55 60
 Gly Gly Pro Gly Val Ser Asp Ala Tyr Tyr Cys Lys Glu Cys Thr Ile
 65 70 75 80
 Gln Glu Lys Asp Arg Asp Gly Cys Pro Lys Ile Val Asn Leu Gly Ser
 85 90 95
 Ser Lys Thr Asp Leu Phe Tyr Glu Arg Lys Lys Tyr Gly Phe Lys Lys
 100 105 110
 Arg
 113

<210> 2690
 <211> 1119
 <212> PRT
 <213> Homo sapiens

<400> 2690
 Ser Gln Leu Arg Lys Gly Ala Ser Ala Thr His Ser Ser Pro Ser Arg
 1 5 10 15
 Thr Asp Cys Ile Ala Gln Met Met Asp Ile Tyr Val Cys Leu Lys Arg
 20 25 30
 Pro Ser Trp Met Val Asp Asn Lys Arg Met Arg Thr Ala Ser Asn Phe
 35 40 45
 Gln Trp Leu Leu Ser Thr Phe Ile Leu Leu Tyr Leu Met Asn Gln Val
 50 55 60
 Asn Ser Gln Lys Lys Gly Ala Pro His Asp Leu Lys Cys Val Thr Asn
 65 70 75 80
 Asn Leu Gln Val Trp Asn Cys Ser Trp Lys Ala Pro Ser Gly Thr Gly
 85 90 95
 Arg Gly Thr Asp Tyr Glu Val Cys Ile Glu Asn Arg Ser Arg Ser Cys
 100 105 110
 Tyr Gln Leu Glu Lys Thr Ser Ile Lys Ile Pro Ala Leu Ser His Gly
 115 120 125
 Asp Tyr Glu Ile Thr Ile Asn Ser Leu His Asp Phe Gly Ser Ser Thr
 130 135 140
 Ser Lys Phe Thr Leu Asn Glu Gln Asn Val Ser Leu Ile Pro Asp Thr
 145 150 155 160
 Pro Glu Ile Leu Asn Leu Ser Ala Asp Phe Ser Thr Ser Thr Leu Tyr
 165 170 175
 Leu Lys Trp Asn Asp Arg Gly Ser Val Phe Pro His Arg Ser Asn Val
 180 185 190
 Ile Trp Glu Ile Lys Val Leu Arg Lys Glu Ser Met Glu Leu Val Lys
 195 200 205
 Leu Val Thr His Asn Thr Thr Leu Asn Gly Lys Asp Thr Leu His His
 210 215 220
 Trp Ser Trp Ala Ser Asp Met Pro Leu Glu Cys Ala Ile His Phe Val
 225 230 235 240
 Glu Ile Arg Cys Tyr Ile Asp Asn Leu His Phe Ser Gly Leu Glu Glu
 245 250 255

Trp	Ser	Asp	Trp	Ser	Pro	Val	Lys	Asn	Ile	Ser	Trp	Ile	Pro	Asp	Ser
			260					265					270		
Gln	Thr	Lys	Val	Phe	Pro	Gln	Asp	Lys	Val	Ile	Leu	Val	Gly	Ser	Asp
			275					280					285		
Ile	Thr	Phe	Cys	Cys	Val	Ser	Gln	Glu	Lys	Val	Leu	Ser	Ala	Leu	Ile
			290					295					300		
Gly	His	Thr	Asn	Cys	Pro	Leu	Ile	His	Leu	Asp	Gly	Glu	Asn	Val	Ala
305								310					315		320
Ile	Lys	Ile	Arg	Asn	Ile	Ser	Val	Ser	Ala	Ser	Ser	Gly	Thr	Asn	Val
Val	Phe	Thr	Thr	Glu	Asp	Asn	Ile	Phe	Gly	Thr	Val	Ile	Phe	Ala	Gly
Tyr	Pro	Pro	Asp	Thr	Pro	Gln	Gln	Leu	Asn	Cys	Glu	Thr	His	Asp	Leu
Lys	Glu	Ile	Ile	Cys	Ser	Trp	Asn	Pro	Gly	Arg	Val	Thr	Ala	Leu	Val
Gly	Pro	Arg	Ala	Thr	Ser	Tyr	Thr	Leu	Val	Glu	Ser	Phe	Ser	Gly	Lys
385															400
Tyr	Val	Arg	Leu	Lys	Arg	Ala	Glu	Ala	Pro	Thr	Asn	Glu	Ser	Tyr	Gln
Leu	Leu	Phe	Gln	Met	Leu	Pro	Asn	Gln	Glu	Ile	Tyr	Asn	Phe	Thr	Leu
Asn	Ala	His	Asn	Pro	Leu	Gly	Arg	Ser	Gln	Ser	Thr	Ile	Leu	Val	Asn
Ile	Thr	Glu	Lys	Val	Tyr	Pro	His	Thr	Pro	Thr	Ser	Phe	Lys	Val	Lys
Asp	Ile	Asn	Ser	Thr	Ala	Val	Lys	Leu	Ser	Trp	His	Leu	Pro	Gly	Asn
465															480
Phe	Ala	Lys	Ile	Asn	Phe	Leu	Cys	Glu	Ile	Glu	Ile	Lys	Lys	Ser	Asn
Ser	Val	Gln	Glu	Gln	Arg	Asn	Val	Thr	Ile	Lys	Gly	Val	Glu	Asn	Ser
Ser	Tyr	Leu	Val	Ala	Leu	Asp	Lys	Leu	Asn	Pro	Tyr	Thr	Leu	Tyr	Thr
Phe	Arg	Ile	Arg	Cys	Ser	Thr	Glu	Thr	Phe	Trp	Lys	Trp	Ser	Lys	Trp
Ser	Asn	Lys	Lys	Gln	His	Leu	Thr	Thr	Glu	Ala	Ser	Pro	Ser	Lys	Gly
545															560
Pro	Asp	Thr	Trp	Arg	Glu	Trp	Ser	Ser	Asp	Gly	Lys	Asn	Leu	Ile	Ile
Tyr	Trp	Lys	Pro	Leu	Pro	Ile	Asn	Glu	Ala	Asn	Gly	Lys	Ile	Leu	Ser
Tyr	Asn	Val	Ser	Cys	Ser	Ser	Asp	Glu	Glu	Thr	Gln	Ser	Leu	Ser	Glu
Ile	Pro	Asp	Pro	Gln	His	Lys	Ala	Glu	Ile	Arg	Leu	Asp	Lys	Asn	Asp
Tyr	Ile	Ile	Ser	Val	Val	Ala	Lys	Asn	Ser	Val	Gly	Ser	Ser	Pro	Pro
625															640
Ser	Lys	Ile	Ala	Ser	Met	Glu	Ile	Pro	Asn	Asp	Asp	Leu	Lys	Ile	Glu
Gln	Val	Val	Gly	Met	Gly	Lys	Gly	Ile	Leu	Leu	Thr	Trp	His	Tyr	Asp
Pro	Asn	Met	Thr	Cys	Asp	Tyr	Val	Ile	Lys	Trp	Cys	Asn	Ser	Ser	Arg
Ser	Glu	Pro	Cys	Leu	Met	Asp	Trp	Arg	Lys	Val	Pro	Ser	Asn	Ser	Thr
Glu	Thr	Val	Ile	Glu	Ser	Asp	Glu	Phe	Arg	Pro	Gly	Ile	Arg	Tyr	Asn
705															720
Phe	Phe	Leu	Tyr	Gly	Cys	Arg	Asn	Gln	Gly	Tyr	Gln	Leu	Leu	Arg	Ser
Met	Ile	Gly	Tyr	Ile	Glu	Glu	Leu	Ala	Pro	Ile	Val	Ala	Pro	Asn	Phe
Thr	Val	Glu	Asp	Thr	Ser	Ala	Asp	Ser	Ile	Leu	Val	Lys	Trp	Glu	Asp

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Ile Pro Val Glu Glu Leu Arg Gly Phe Leu Arg Gly Tyr Leu Phe Tyr
  770                      775                      780
Phe Gly Lys Gly Glu Arg Asp Thr Ser Lys Met Arg Val Leu Glu Ser
  785                      790                      795                      800
Gly Arg Ser Asp Ile Lys Val Lys Asn Ile Thr Asp Ile Ser Gln Lys
                      805                      810                      815
Thr Leu Arg Ile Ala Asp Leu Gln Gly Lys Thr Ser Tyr His Leu Val
                      820                      825                      830
Leu Arg Ala Tyr Thr Asp Gly Gly Val Gly Pro Glu Lys Ser Met Tyr
                      835                      840                      845
Val Val Thr Lys Glu Asn Ser Val Gly Leu Ile Ile Ala Ile Leu Ile
                      850                      855                      860
Pro Val Ala Val Ala Val Ile Val Gly Val Val Thr Ser Ile Leu Cys
  865                      870                      875                      880
Tyr Arg Lys Arg Glu Trp Ile Lys Glu Thr Phe Tyr Pro Asp Ile Pro
                      885                      890                      895
Asn Pro Glu Asn Cys Lys Ala Leu Gln Phe Gln Lys Ser Val Cys Glu
                      900                      905                      910
Gly Ser Ser Ala Leu Lys Thr Leu Glu Met Asn Pro Cys Thr Pro Asn
                      915                      920                      925
Asn Val Glu Val Leu Glu Thr Arg Ser Ala Phe Pro Lys Ile Glu Asp
                      930                      935                      940
Thr Glu Ile Val Ser Pro Val Ala Glu Arg Pro Glu Asn Arg Ser Asp
  945                      950                      955                      960
Ala Lys Pro Glu Asn His Val Val Glu Ser Tyr Cys Pro Pro Ile Ile
                      965                      970                      975
Glu Glu Glu Ile Pro Asn Pro Ala Ala Asp Glu Thr Gly Gly Thr Ala
                      980                      985                      990
Gln Val Ile Tyr Ile Asp Val Gln Ser Met Tyr Gln Pro Gln Ala Lys
                      995                      1000                      1005
Pro Glu Glu Glu Gln Glu Asn Asp Pro Val Gly Gly Ala Gly Tyr Lys
  1010                      1015                      1020
Pro Gln Met His Leu Pro Ile Asn Ser Thr Val Glu Asp Ile Ala Ala
  1025                      1030                      1035                      1040
Glu Glu Asp Leu Asp Lys Thr Ala Gly Tyr Arg Pro Gln Ala Asn Val
                      1045                      1050                      1055
Asn Thr Trp Asn Leu Val Ser Pro Asp Ser Pro Arg Ser Ile Asp Ser
                      1060                      1065                      1070
Asn Ser Glu Ile Val Ser Phe Gly Ser Pro Cys Ser Ile Asn Ser Arg
  1075                      1080                      1085
Gln Phe Leu Ile Pro Pro Lys Asp Glu Asp Ser Pro Lys Ser Asn Gly
  1090                      1095                      1100
Gly Gly Trp Ser Phe Thr Asn Phe Phe Gln Asn Lys Pro Asn Asp
  1105                      1110                      1115                      1119

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<210> 2691
 <211> 1685
 <212> PRT
 <213> Homo sapiens

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<400> 2691
Met Leu Pro Pro Lys His Leu Ser Ala Thr Lys Pro Lys Lys Ser Trp
  1                      5                      10                      15
Ala Pro Asn Leu Tyr Glu Leu Asp Ser Asp Leu Thr Lys Glu Pro Asp
                      20                      25                      30
Val Ile Ile Gly Glu Gly Pro Thr Asp Ser Glu Phe Phe His Gln Arg
                      35                      40                      45
Phe Arg Asn Leu Ile Tyr Val Glu Phe Val Gly Pro Arg Lys Thr Leu
                      50                      55                      60
Ile Lys Leu Arg Asn Leu Cys Leu Asp Trp Leu Gln Pro Glu Thr Arg
  65                      70                      75                      80

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Thr Lys Glu Glu Ile Ile Glu Leu Leu Val Leu Glu Gln Tyr Leu Thr
 85 90 95
 Ile Ile Pro Glu Lys Leu Lys Pro Trp Val Arg Ala Lys Lys Pro Glu
 100 105 110
 Asn Cys Glu Lys Leu Val Thr Leu Leu Glu Asn Tyr Lys Glu Met Tyr
 115 120 125
 Gln Pro Glu Gly Glu Ser Leu His Gly Val Leu Val Val Ser Ala Gly
 130 135 140
 Leu Arg Cys Pro Leu Gly Leu Ser Ala Ser Thr Leu Leu Thr Trp Ser
 145 150 155 160
 Gly Leu Asp Asn Ser Leu Ser Trp Ala Ala Val Gly Met Ser Cys Val
 165 170 175
 Leu Trp Asp Ile Glu Leu His His Asp Phe Leu Gly Val Ala Thr Lys
 180 185 190
 Ser Val Ser Thr His Ala Gln Gly Asp Ala Ala Gln Gly Leu Gly Gly
 195 200 205
 Thr Ile Val Arg Met Trp Ala Arg Asp Ser Asn Leu Ala Thr Gly Val
 210 215 220
 Leu Leu Asp Asp Asn Asn Ser Asp Val Thr Ser Asp Asp Asp Met Thr
 225 230 235 240
 Arg Asn Arg Arg Glu Ser Ser Pro Pro His Ser Val His Ser Phe Ser
 245 250 255
 Gly Asp Arg Asp Trp Asp Arg Arg Gly Arg Ser Arg Asp Thr Glu Pro
 260 265 270
 Arg Asp Arg Trp Ser His Thr Arg Asn Pro Arg Ser Arg Met Pro Pro
 275 280 285
 Arg Asp Leu Ser Leu Pro Val Val Ala Lys Thr Ser Phe Glu Met Asp
 290 295 300
 Arg Glu Asp Asp Arg Asp Ser Arg Ala Tyr Glu Ser Arg Ser Gln Asp
 305 310 315 320
 Ala Glu Ser Tyr Gln Asn Val Val Asp Leu Ala Glu Asp Arg Lys Pro
 325 330 335
 His Asn Thr Ile Gln Asp Asn Met Glu Asn Tyr Arg Lys Leu Leu Ser
 340 345 350
 Leu Gly Val Gln Leu Ala Glu Asp Gly His Ser His Met Thr Gln
 355 360 365
 Gly His Ser Ser Arg Ser Lys Arg Ser Ala Tyr Pro Ser Thr Ser Arg
 370 375 380
 Gly Leu Lys Thr Met Pro Glu Ala Lys Lys Ser Thr His Arg Arg Gly
 385 390 395 400
 Ile Cys Glu Asp Glu Ser Ser His Gly Val Ile Met Glu Lys Phe Ile
 405 410 415
 Lys Asp Val Ser Arg Ser Ser Lys Ser Gly Arg Ala Arg Glu Ser Ser
 420 425 430
 Asp Arg Ser Gln Arg Phe Pro Arg Met Ser Asp Asp Asn Trp Lys Asp
 435 440 445
 Ile Ser Leu Asn Lys Arg Glu Ser Val Ile Gln Gln Arg Val Tyr Glu
 450 455 460
 Gly Asn Ala Phe Arg Gly Gly Phe Arg Phe Asn Ser Thr Leu Val Ser
 465 470 475 480
 Arg Lys Arg Val Leu Glu Arg Lys Arg Arg Tyr His Phe Asp Thr Asp
 485 490 495
 Gly Lys Gly Ser Ile His Asp Gln Lys Gly Cys Pro Arg Lys Lys Pro
 500 505 510
 Phe Glu Cys Gly Ser Glu Met Arg Lys Ala Met Ser Val Ser Ser Leu
 515 520 525
 Ser Ser Leu Ser Ser Pro Ser Phe Thr Glu Ser Gln Pro Ile Asp Phe
 530 535 540
 Gly Ala Met Pro Tyr Val Cys Asp Glu Cys Gly Arg Ser Phe Ser Val
 545 550 555 560
 Ile Ser Glu Phe Val Glu His Gln Ile Met His Thr Arg Glu Asn Leu
 565 570 575
 Tyr Glu Tyr Gly Glu Ser Phe Ile His Ser Val Ala Val Ser Glu Val
 580 585 590

Gln Lys Ser Gln Val Gly Gly Lys Arg Phe Glu Cys Lys Asp Cys Gly
 595 600 605
 Glu Thr Phe Asn Lys Ser Ala Ala Leu Ala Glu His Arg Lys Ile His
 610 615 620
 Ala Arg Gly Tyr Leu Val Glu Cys Lys Asn Gln Glu Cys Glu Glu Ala
 625 630 635 640
 Phe Met Pro Ser Pro Thr Phe Ser Glu Leu Gln Lys Ile Tyr Gly Lys
 645 650 655
 Asp Lys Phe Tyr Glu Cys Arg Val Cys Lys Glu Thr Phe Leu His Ser
 660 665 670
 Ser Ala Leu Ile Glu His Gln Lys Ile His Phe Gly Asp Asp Lys Asp
 675 680 685
 Asn Glu Arg Glu His Glu Arg Glu Arg Glu Arg Gly Glu Thr
 690 695 700
 Phe Arg Pro Ser Pro Ala Leu Asn Glu Phe Gln Lys Met Tyr Gly Lys
 705 710 715 720
 Glu Lys Met Tyr Glu Cys Lys Val Cys Gly Glu Thr Phe Leu His Ser
 725 730 735
 Ser Ser Leu Lys Glu His Gln Lys Ile His Thr Arg Gly Asn Pro Phe
 740 745 750
 Glu Asn Lys Gly Lys Val Cys Glu Glu Thr Phe Ile Pro Gly Gln Ser
 755 760 765
 Leu Lys Arg Arg Gln Lys Thr Tyr Asn Lys Glu Lys Leu Cys Asp Phe
 770 775 780
 Thr Asp Gly Arg Asp Ala Phe Met Gln Ser Ser Glu Leu Ser Glu His
 785 790 795 800
 Gln Lys Ile His Ser Arg Lys Asn Leu Phe Glu Gly Arg Gly Tyr Glu
 805 810 815
 Lys Ser Val Ile His Ser Gly Pro Phe Thr Glu Ser Gln Lys Ser His
 820 825 830
 Thr Ile Thr Arg Pro Leu Glu Ser Asp Glu Asp Glu Lys Ala Phe Thr
 835 840 845
 Ile Ser Ser Asn Pro Tyr Glu Asn Gln Lys Ile Pro Thr Lys Glu Asn
 850 855 860
 Val Tyr Glu Ala Lys Ser Tyr Glu Arg Ser Val Ile His Ser Leu Ala
 865 870 875 880
 Ser Val Glu Ala Gln Lys Ser His Ser Val Ala Gly Pro Ser Lys Pro
 885 890 895
 Lys Val Met Ala Glu Ser Thr Ile Gln Ser Phe Asp Ala Ile Asn His
 900 905 910
 Gln Arg Val Arg Ala Gly Gly Asn Thr Ser Glu Gly Arg Glu Tyr Ser
 915 920 925
 Arg Ser Val Ile His Ser Leu Val Ala Ser Lys Pro Pro Arg Ser His
 930 935 940
 Asn Gly Asn Glu Leu Val Glu Ser Asn Glu Lys Gly Glu Ser Ser Ile
 945 950 955 960
 Tyr Ile Ser Asp Leu Asn Asp Lys Arg Gln Lys Ile Pro Ala Arg Glu
 965 970 975
 Asn Pro Cys Glu Gly Gly Ser Lys Asn Arg Asn Tyr Glu Asp Ser Val
 980 985 990
 Ile Gln Ser Val Phe Arg Ala Lys Pro Gln Lys Ser Val Pro Gly Glu
 995 1000 1005
 Gly Ser Gly Glu Phe Lys Lys Asp Gly Glu Phe Ser Val Pro Ser Ser
 1010 1015 1020
 Asn Val Arg Glu Tyr Gln Lys Ala Arg Ala Lys Lys Lys Tyr Ile Glu
 1025 1030 1035 1040
 His Arg Ser Asn Glu Thr Ser Val Ile His Ser Leu Pro Phe Gly Glu
 1045 1050 1055
 Gln Thr Phe Arg Pro Arg Gly Met Leu Tyr Glu Cys Gln Glu Cys Gly
 1060 1065 1070
 Glu Cys Phe Ala His Ser Ser Asp Leu Thr Glu His Gln Lys Ile His
 1075 1080 1085
 Asp Arg Glu Lys Pro Ser Gly Ser Arg Asn Tyr Glu Trp Ser Val Ile
 1090 1095 1100

Arg Ser Leu Ala Pro Thr Asp Pro Gln Thr Ser Tyr Ala Gln Glu Gln
 1105 1110 1115 1120
 Tyr Ala Lys Glu Gln Ala Arg Asn Lys Cys Lys Asp Phe Arg Gln Phe
 1125 1130 1135
 Phe Ala Thr Ser Glu Asp Leu Asn Thr Asn Gln Lys Ile Tyr Asp Gln
 1140 1145 1150
 Glu Lys Ser His Gly Glu Glu Ser Gln Gly Glu Asn Thr Asp Gly Glu
 1155 1160 1165
 Glu Thr His Ser Glu Glu Thr His Gly Gln Glu Thr Ile Glu Asp Pro
 1170 1175 1180
 Val Ile Gln Gly Ser Asp Met Glu Asp Pro Gln Lys Asp Asp Pro Asp
 1185 1190 1195 1200
 Asp Lys Ile Tyr Glu Cys Glu Asp Cys Gly Leu Gly Phe Val Asp Leu
 1205 1210 1215
 Thr Asp Leu Thr Asp His Gln Lys Val His Ser Arg Lys Cys Leu Val
 1220 1225 1230
 Asp Ser Arg Glu Tyr Thr His Ser Val Ile His Thr His Ser Ile Ser
 1235 1240 1245
 Glu Tyr Gln Arg Asp Tyr Thr Gly Glu Gln Leu Tyr Glu Cys Pro Lys
 1250 1255 1260
 Cys Gly Glu Ser Phe Ile His Ser Ser Phe Leu Phe Glu His Gln Arg
 1265 1270 1275 1280
 Ile His Glu Gln Asp Gln Leu Tyr Ser Met Lys Gly Cys Asp Asp Gly
 1285 1290 1295
 Phe Ile Ala Leu Leu Pro Met Lys Pro Arg Arg Asn Arg Ala Ala Glu
 1300 1305 1310
 Arg Asn Pro Ala Leu Ala Gly Ser Ala Ile Arg Cys Leu Leu Cys Gly
 1315 1320 1325
 Gln Gly Phe Ile His Ser Ser Ala Leu Asn Glu His Met Arg Leu His
 1330 1335 1340
 Arg Glu Asp Asp Leu Leu Glu Gln Ser Gln Met Ala Glu Glu Ala Ile
 1345 1350 1355 1360
 Ile Pro Gly Leu Ala Leu Thr Glu Phe Gln Arg Ser Gln Thr Glu Glu
 1365 1370 1375
 Arg Leu Phe Glu Cys Ala Val Cys Gly Glu Ser Phe Val Asn Pro Ala
 1380 1385 1390
 Glu Leu Ala Asp His Val Thr Val His Lys Asn Glu Pro Tyr Glu Tyr
 1395 1400 1405
 Gly Ser Ser Tyr Thr His Thr Ser Phe Leu Thr Glu Pro Leu Lys Gly
 1410 1415 1420
 Ala Ile Pro Phe Tyr Glu Cys Lys Asp Cys Gly Lys Ser Phe Ile His
 1425 1430 1435 1440
 Ser Thr Val Leu Thr Lys His Lys Glu Leu His Leu Glu Glu Glu
 1445 1450 1455
 Glu Asp Glu Ala Ala Ala Ala Ala Ala Ala Ala Ala Gln Glu Val Glu
 1460 1465 1470
 Ala Asn Val His Val Pro Gln Val Val Leu Arg Ile Gln Gly Leu Asn
 1475 1480 1485
 Val Glu Ala Ala Glu Pro Glu Val Glu Ala Ala Glu Pro Glu Val Glu
 1490 1495 1500
 Ala Ala Glu Pro Glu Val Glu Ala Ala Glu Pro Asn Gly Glu Ala Glu
 1505 1510 1515 1520
 Gly Pro Asp Gly Glu Ala Ala Glu Pro Ile Gly Glu Ala Gly Gln Pro
 1525 1530 1535
 Asn Gly Glu Ala Glu Gln Pro Asn Gly Asp Ala Asp Glu Pro Asp Gly
 1540 1545 1550
 Ala Gly Ile Glu Asp Pro Glu Glu Arg Ala Glu Glu Pro Glu Gly Lys
 1555 1560 1565
 Ala Glu Glu Pro Glu Gly Asp Ala Asp Glu Pro Asp Gly Val Gly Ile
 1570 1575 1580
 Glu Asp Pro Glu Glu Gly Glu Asp Gln Glu Ile Gln Val Glu Glu Pro
 1585 1590 1595 1600
 Tyr Tyr Asp Cys His Glu Cys Thr Glu Thr Phe Thr Ser Ser Thr Ala
 1605 1610 1615

Phe Ser Glu His Leu Lys Thr His Ala Ser Met Ile Ile Phe Glu Pro
 1620 1625 1630
 Ala Asn Ala Phe Gly Glu Cys Ser Gly Tyr Ile Glu Arg Ala Ser Thr
 1635 1640 1645
 Ser Thr Gly Gly Ala Asn Gln Ala Asp Glu Lys Tyr Phe Lys Cys Asp
 1650 1655 1660
 Val Cys Gly Gln Leu Phe Asn Asp His Leu Ser Leu Ala Arg His Gln
 1665 1670 1675 1680
 Asn Thr His Thr Gly
 1685

<210> 2692
 <211> 449
 <212> PRT
 <213> Homo sapiens

<400> 2692
 Gly Arg Pro Arg Ser Ser Ser Asp Asn Arg Asn Phe Leu Arg Glu Arg
 1 5 10 15
 Ala Gly Leu Ser Ser Ala Ala Val Gln Thr Arg Ile Gly Asn Ser Ala
 20 25 30
 Ala Ser Arg Arg Ser Pro Ala Ala Arg Pro Pro Val Pro Ala Pro Pro
 35 40 45
 Ala Leu Pro Arg Gly Arg Pro Gly Thr Glu Gly Ser Thr Ser Leu Ser
 50 55 60
 Ala Pro Ala Val Leu Val Val Ala Val Ala Val Val Val Val Val
 65 70 75 80
 Ser Ala Val Ala Trp Ala Met Ala Asn Tyr Ile His Val Pro Pro Gly
 85 90 95
 Ser Pro Glu Val Pro Lys Leu Asn Val Thr Val Gln Asp Gln Glu Glu
 100 105 110
 His Arg Cys Arg Glu Gly Ala Leu Ser Leu Leu Gln His Leu Arg Pro
 115 120 125
 His Trp Asp Pro Gln Glu Val Thr Leu Gln Leu Phe Thr Asp Gly Ile
 130 135 140
 Thr Asn Lys Leu Ile Gly Cys Tyr Val Gly Asn Thr Met Glu Asp Val
 145 150 155 160
 Val Leu Val Arg Ile Tyr Gly Asn Lys Thr Glu Leu Leu Val Asp Arg
 165 170 175
 Asp Glu Glu Val Lys Ser Phe Arg Val Leu Gln Ala His Gly Cys Ala
 180 185 190
 Pro Gln Leu Tyr Cys Thr Phe Asn Asn Gly Leu Cys Tyr Glu Phe Ile
 195 200 205
 Gln Gly Glu Ala Leu Asp Pro Lys His Val Cys Asn Pro Ala Ile Phe
 210 215 220
 Arg Leu Ile Ala Arg Gln Leu Ala Lys Ile His Ala Ile His Ala His
 225 230 235 240
 Asn Gly Trp Ile Pro Lys Ser Asn Leu Trp Leu Lys Met Gly Lys Tyr
 245 250 255
 Phe Ser Leu Ile Pro Thr Gly Phe Ala Asp Glu Asp Ile Asn Lys Arg
 260 265 270
 Phe Leu Ser Asp Ile Pro Ser Ser Gln Ile Leu Gln Glu Glu Met Thr
 275 280 285
 Trp Met Lys Glu Ile Leu Ser Asn Leu Gly Ser Pro Val Val Leu Cys
 290 295 300
 His Asn Asp Leu Leu Cys Lys Asn Ile Ile Tyr Asn Glu Lys Gln Gly
 305 310 315 320
 Asp Val Gln Phe Ile Asp Tyr Glu Tyr Ser Gly Tyr Asn Tyr Leu Ala
 325 330 335
 Tyr Asp Ile Gly Asn His Phe Asn Glu Phe Ala Gly Val Ser Asp Val
 340 345 350

Asp Tyr Ser Leu Tyr Pro Asp Arg Glu Leu Gln Ser Gln Trp Leu Arg
 355 360 365
 Ala Tyr Leu Glu Ala Tyr Lys Glu Phe Lys Gly Phe Gly Thr Glu Val
 370 375 380
 Thr Glu Lys Glu Val Glu Ile Leu Phe Ile Gln Val Asn Gln Phe Ala
 385 390 395 400
 Leu Ala Ser His Phe Phe Trp Gly Leu Trp Ala Leu Ile Gln Ala Lys
 405 410 415
 Tyr Ser Thr Ile Glu Phe Asp Phe Leu Gly Tyr Ala Ile Val Arg Phe
 420 425 430
 Asn Gln Tyr Phe Lys Met Lys Pro Glu Val Thr Ala Leu Lys Val Pro
 435 440 445
 Glu
 449

<210> 2693
 <211> 245
 <212> PRT
 <213> Homo sapiens

<400> 2693
 Pro Glu Ala Gln Thr Ser Ala Val Leu Ala Arg Glu Lys Gly His Leu
 1 5 10 15
 Pro Thr Met Arg His Glu Ala Pro Met Gln Met Ala Ser Ala Gln Asp
 20 25 30
 Ala Arg Tyr Gly Gln Lys Asp Ser Ser Asp Gln Asn Phe Asp Tyr Met
 35 40 45
 Phe Lys Leu Leu Ile Ile Gly Asn Ser Ser Val Gly Lys Thr Ser Phe
 50 55 60
 Leu Phe Arg Tyr Ala Asp Asp Ser Phe Thr Ser Ala Phe Val Ser Thr
 65 70 75 80
 Val Gly Ile Asp Phe Lys Val Lys Thr Val Phe Lys Asn Glu Lys Arg
 85 90 95
 Ile Lys Leu Gln Ile Trp Asp Thr Ala Gly Gln Glu Arg Tyr Arg Thr
 100 105 110
 Ile Thr Thr Ala Tyr Tyr Arg Gly Ala Met Gly Phe Ile Leu Met Tyr
 115 120 125
 Asp Ile Thr Asn Glu Glu Ser Phe Asn Ala Val Gln Asp Trp Ser Thr
 130 135 140
 Gln Ile Lys Thr Tyr Ser Trp Asp Asn Ala Gln Val Ile Leu Val Gly
 145 150 155 160
 Asn Lys Cys Asp Met Glu Asp Glu Arg Val Ile Ser Thr Glu Arg Gly
 165 170 175
 Gln His Leu Gly Glu Gln Leu Gly Phe Glu Phe Phe Glu Thr Ser Ala
 180 185 190
 Lys Asp Asn Ile Asn Val Lys Gln Thr Phe Glu Arg Leu Val Asp Ile
 195 200 205
 Ile Cys Asp Lys Met Ser Glu Ser Leu Glu Thr Asp Pro Ala Ile Thr
 210 215 220
 Ala Ala Lys Gln Asn Thr Arg Leu Lys Glu Thr Pro Pro Pro Gln
 225 230 235 240
 Pro Asn Cys Ala Cys
 245

<210> 2694
 <211> 1378
 <212> PRT
 <213> Homo sapiens

<400> 2694

Asp	Arg	Pro	Pro	Trp	Asn	Ser	Arg	Val	Asp	Asp	Phe	Val	Thr	Asn	Leu	
1				5					10					15		
Ile	His	Leu	Ser	Ser	Lys	Gly	His	Ile	Ser	Pro	Ala	Lys	Asp	Thr	Ser	
		20						25					30			
Leu	Gln	Gln	Arg	Thr	Pro	Ala	Glu	Met	Ser	Pro	Val	Leu	His	Phe	Tyr	
	35						40					45				
Val	Arg	Pro	Ser	Gly	His	Glu	Gly	Ala	Ala	Ser	Gly	His	Thr	Arg	Arg	
	50				55						60					
Lys	Leu	Gln	Gly	Lys	Leu	Pro	Glu	Leu	Gln	Gly	Val	Glu	Thr	Glu	Leu	
65				70					75					80		
Cys	Tyr	Asn	Val	Asn	Trp	Thr	Ala	Glu	Ala	Leu	Pro	Ser	Ala	Glu	Glu	
				85					90					95		
Thr	Lys	Lys	Leu	Met	Trp	Leu	Phe	Gly	Cys	Pro	Leu	Leu	Leu	Asp	Asp	
			100					105					110			
Val	Ala	Arg	Glu	Ser	Trp	Leu	Leu	Pro	Gly	Ser	Asn	Asp	Leu	Leu	Leu	
	115					120						125				
Glu	Val	Gly	Pro	Arg	Leu	Asn	Phe	Ser	Thr	Pro	Thr	Ser	Thr	Asn	Ile	
	130					135					140					
Val	Ser	Val	Cys	Arg	Ala	Thr	Gly	Leu	Gly	Pro	Val	Asp	Arg	Val	Glu	
145				150						155				160		
Thr	Thr	Arg	Arg	Tyr	Arg	Leu	Ser	Phe	Ala	His	Pro	Pro	Ser	Ala	Glu	
				165					170					175		
Val	Glu	Ala	Ile	Ala	Leu	Ala	Thr	Leu	His	Asp	Arg	Met	Thr	Glu	Gln	
		180					185						190			
His	Phe	Pro	His	Pro	Ile	Gln	Ser	Phe	Ser	Pro	Glu	Ser	Met	Pro	Glu	
	195				200						205					
Pro	Leu	Asn	Gly	Pro	Ile	Asn	Ile	Leu	Gly	Glu	Gly	Arg	Leu	Ala	Leu	
	210				215						220					
Glu	Lys	Ala	Asn	Gln	Glu	Leu	Gly	Leu	Ala	Leu	Asp	Ser	Trp	Asp	Leu	
225				230					235					240		
Asp	Phe	Tyr	Thr	Lys	Arg	Phe	Gln	Glu	Leu	Gln	Arg	Asn	Pro	Ser	Thr	
				245					250					255		
Val	Glu	Ala	Phe	Asp	Leu	Ala	Gln	Ser	Asn	Ser	Glu	His	Ser	Arg	His	
			260				265						270			
Trp	Phe	Phe	Lys	Gly	Gln	Leu	His	Val	Asp	Gly	Gln	Lys	Leu	Val	His	
	275				280							285				
Ser	Leu	Phe	Glu	Ser	Ile	Met	Ser	Thr	Gln	Glu	Ser	Ser	Asn	Pro	Asn	
	290				295						300					
Asn	Val	Leu	Lys	Phe	Cys	Asp	Asn	Ser	Ser	Ala	Ile	Gln	Gly	Lys	Glu	
305				310						315				320		
Val	Arg	Phe	Leu	Arg	Pro	Glu	Asp	Pro	Thr	Arg	Pro	Ser	Arg	Phe	Gln	
				325					330					335		
Gln	Gln	Gln	Gly	Leu	Arg	His	Val	Val	Phe	Thr	Ala	Glu	Thr	His	Asn	
			340				345						350			
Phe	Pro	Thr	Gly	Val	Cys	Pro	Phe	Ser	Gly	Ala	Thr	Thr	Gly	Thr	Gly	
	355					360					365					
Gly	Arg	Ile	Arg	Asp	Val	Gln	Cys	Thr	Gly	Arg	Gly	Ala	His	Val	Val	
	370				375						380					
Ala	Gly	Thr	Ala	Gly	Tyr	Cys	Phe	Gly	Asn	Leu	His	Ile	Pro	Gly	Tyr	
385				390					395					400		
Asn	Leu	Pro	Trp	Glu	Asp	Leu	Ser	Phe	Gln	Tyr	Pro	Gly	Asn	Phe	Ala	
				405					410					415		
Arg	Pro	Leu	Glu	Val	Ala	Ile	Glu	Ala	Ser	Asn	Gly	Ala	Ser	Asp	Tyr	
		420					425						430			
Gly	Asn	Lys	Phe	Gly	Glu	Pro	Val	Leu	Ala	Gly	Phe	Ala	Arg	Ser	Leu	
	435					440					445					
Gly	Leu	Gln	Leu	Pro	Asp	Gly	Gln	Arg	Arg	Glu	Trp	Ile	Lys	Pro	Ile	
	450				455						460					
Met	Phe	Ser	Gly	Gly	Ile	Gly	Ser	Met	Glu	Ala	Asp	His	Ile	Ser	Lys	
465				470					475					480		
Glu	Ala	Pro	Glu	Pro	Gly	Met	Glu	Val	Val	Lys	Val	Gly	Gly	Pro	Val	
				485					490					495		

Tyr Arg Ile Gly Val Gly Gly Gly Ala Ala Ser Ser Val Gln Val Gln
 500 505 510
 Gly Asp Asn Thr Ser Asp Leu Asp Phe Gly Ala Val Gln Arg Gly Asp
 515 520 525
 Pro Glu Met Glu Gln Lys Met Asn Arg Val Ile Arg Ala Cys Val Glu
 530 535 540
 Ala Pro Lys Gly Asn Pro Ile Cys Ser Leu His Asp Gln Gly Ala Gly
 545 550 555 560
 Gly Asn Gly Asn Val Leu Lys Glu Leu Ser Asp Pro Ala Gly Ala Ile
 565 570 575
 Ile Tyr Thr Ser Arg Phe Gln Leu Gly Asp Pro Thr Leu Asn Ala Leu
 580 585 590
 Glu Ile Trp Gly Ala Glu Tyr Gln Glu Ser Asn Ala Leu Leu Leu Arg
 595 600 605
 Ser Pro Asn Arg Asp Phe Leu Thr His Val Ser Ala Arg Glu Arg Cys
 610 615 620
 Pro Ala Cys Phe Val Gly Thr Ile Thr Gly Asp Arg Arg Ile Val Leu
 625 630 635 640
 Val Asp Asp Arg Glu Cys Pro Val Arg Arg Asn Gly Gln Gly Asp Ala
 645 650 655
 Pro Pro Thr Pro Pro Thr Pro Val Asp Leu Glu Leu Glu Trp Val
 660 665 670
 Leu Gly Lys Met Pro Arg Lys Glu Phe Phe Leu Gln Arg Lys Pro Pro
 675 680 685
 Met Leu Gln Pro Leu Ala Leu Pro Pro Gly Leu Ser Val His Gln Ala
 690 695 700
 Leu Glu Arg Val Leu Arg Leu Pro Ala Val Ala Ser Lys Arg Tyr Leu
 705 710 715 720
 Thr Asn Lys Val Asp Arg Ser Val Gly Gly Leu Val Ala Gln Gln Gln
 725 730 735
 Cys Val Gly Pro Leu Gln Thr Pro Leu Ala Asp Val Ala Val Val Ala
 740 745 750
 Leu Ser His Glu Glu Leu Ile Gly Ala Ala Thr Ala Leu Gly Glu Gln
 755 760 755
 Pro Val Lys Ser Leu Leu Asp Pro Lys Val Ala Ala Arg Leu Ala Val
 770 775 780
 Ala Glu Ala Leu Thr Asn Leu Val Phe Ala Leu Val Thr Asp Leu Arg
 785 790 795 800
 Asp Val Lys Cys Ser Gly Asn Trp Met Trp Ala Ala Lys Leu Pro Gly
 805 810 815
 Glu Gly Ala Ala Leu Ala Asp Ala Cys Glu Ala Met Val Ala Val Met
 820 825 830
 Ala Ala Leu Gly Val Ala Val Asp Gly Gly Lys Asp Ser Leu Ser Met
 835 840 845
 Ala Ala Arg Val Gly Thr Glu Thr Val Arg Ala Pro Gly Ser Leu Val
 850 855 860
 Ile Ser Ala Tyr Ala Val Cys Pro Asp Ile Thr Ala Thr Val Thr Pro
 865 870 875 880
 Asp Leu Lys His Pro Glu Gly Arg Gly His Leu Leu Tyr Val Ala Leu
 885 890 895
 Ser Pro Gly Gln His Arg Leu Gly Gly Thr Ala Leu Ala Gln Cys Phe
 900 905 910
 Ser Gln Leu Gly Glu His Pro Pro Asp Leu Asp Leu Pro Glu Asn Leu
 915 920 925
 Val Arg Ala Phe Ser Ile Thr Gln Gly Leu Leu Lys Asp Arg Leu Leu
 930 935 940
 Cys Ser Gly His Asp Val Ser Asp Gly Gly Leu Val Thr Cys Leu Leu
 945 950 955 960
 Glu Met Ala Phe Ala Gly Asn Cys Gly Leu Gln Val Asp Val Pro Val
 965 970 975
 Pro Arg Val Asp Val Leu Ser Val Leu Phe Ala Glu Glu Pro Gly Leu
 980 985 990
 Val Leu Glu Val Gln Glu Pro Asp Leu Ala Gln Val Leu Lys Arg Tyr
 995 1000 1005

Arg Asp Ala Gly Leu His Cys Leu Glu Leu Gly His Thr Gly Glu Ala
 1010 1015 1020
 Gly Pro His Ala Met Val Arg Val Ser Val Asn Gly Ala Val Val Leu
 1025 1030 1035 1040
 Glu Glu Pro Val Gly Glu Leu Arg Ala Leu Trp Glu Glu Thr Ser Phe
 1045 1050 1055
 Gln Leu Asp Arg Leu Gln Ala Glu Pro Arg Cys Val Ala Glu Glu Glu
 1060 1065 1070
 Arg Gly Leu Arg Glu Arg Met Gly Pro Ser Tyr Cys Leu Pro Pro Thr
 1075 1080 1085
 Phe Pro Lys Ala Ser Val Pro Arg Glu Pro Gly Gly Pro Ser Pro Arg
 1090 1095 1100
 Val Ala Ile Leu Arg Glu Glu Gly Ser Asn Gly Asp Arg Glu Met Ala
 1105 1110 1115 1120
 Asp Ala Phe His Leu Ala Gly Phe Glu Val Trp Asp Val Thr Met Gln
 1125 1130 1135
 Asp Leu Cys Ser Gly Ala Ile Gly Leu Asp Thr Phe Arg Gly Val Ala
 1140 1145 1150
 Phe Val Gly Gly Phe Ser Tyr Ala Asp Val Leu Gly Ser Ala Lys Gly
 1155 1160 1165
 Trp Ala Ala Val Thr Phe His Pro Arg Ala Gly Ala Glu Leu Arg
 1170 1175 1180
 Arg Phe Arg Lys Arg Pro Asp Thr Phe Ser Leu Gly Val Cys Asn Gly
 1185 1190 1195 1200
 Cys Gln Leu Leu Ala Leu Leu Gly Trp Val Gly Gly Asp Pro Asn Glu
 1205 1210 1215
 Asp Ala Ala Glu Met Gly Pro Asp Ser Gln Pro Ala Arg Pro Gly Leu
 1220 1225 1230
 Leu Leu Arg His Asn Leu Ser Gly Arg Tyr Glu Ser Arg Trp Ala Ser
 1235 1240 1245
 Val Arg Val Gly Pro Gly Pro Ala Leu Met Leu Arg Gly Met Glu Gly
 1250 1255 1260
 Ala Val Leu Pro Val Trp Ser Ala His Gly Glu Gly Tyr Val Ala Phe
 1265 1270 1275 1280
 Ser Ser Pro Glu Leu Gln Ala Gln Ile Glu Ala Arg Gly Leu Ala Pro
 1285 1290 1295
 Leu His Trp Ala Asp Asp Asp Gly Asn Pro Thr Glu Gln Tyr Pro Leu
 1300 1305 1310
 Asn Pro Asn Gly Ser Pro Gly Gly Val Ala Gly Ile Cys Ser Cys Asp
 1315 1320 1325
 Gly Arg His Leu Ala Val Met Pro His Pro Glu Arg Ala Val Arg Pro
 1330 1335 1340
 Trp Gln Trp Ala Trp Arg Pro Pro Phe Asp Thr Leu Thr Thr Ser
 1345 1350 1355 1360
 Pro Trp Leu Gln Leu Phe Ile Asn Ala Arg Asn Trp Thr Leu Glu Gly
 1365 1370 1375
 Ser Cys
 1378

<210> 2695
 <211> 192
 <212> PRT
 <213> Homo sapiens

<400> 2695
 Gly Val Arg Gly Phe Trp Ala Gly Thr Met Ala Ser Arg Ala Gly Pro
 1 5 10 15
 Arg Ala Ala Gly Thr Asp Gly Ser Asp Phe Gln His Arg Glu Arg Val
 20 25 30
 Ala Met His Tyr Gln Met Ser Val Thr Leu Lys Tyr Glu Ile Lys Lys
 35 40 45

```

Leu Ile Tyr Val His Leu Val Ile Trp Leu Leu Leu Val Ala Lys Met
 50          55          60
Ser Val Gly His Leu Arg Leu Leu Ser His Asp Gln Val Ala Met Pro
 65          70          75          80
Tyr Gln Trp Glu Tyr Pro Tyr Leu Leu Ser Ile Leu Pro Ser Leu Leu
      85          90          95
Gly Leu Leu Ser Phe Pro Arg Asn Asn Ile Ser Tyr Leu Val Leu Ser
      100          105          110
Met Ile Ser Met Gly Leu Phe Ser Ile Ala Pro Leu Ile Tyr Gly Ser
      115          120          125
Met Glu Met Phe Pro Ala Ala Gln Gln Leu Tyr Arg His Gly Lys Ala
      130          135          140
Tyr Arg Phe Leu Phe Gly Phe Ser Ala Val Ser Ile Met Tyr Leu Val
      145          150          155          160
Leu Val Leu Ala Val Gln Val His Ala Trp Gln Leu Tyr Tyr Ser Lys
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      35          40          45
Ser Ser Gly Asp Leu Leu Arg Asp Asn Met Leu Arg Gly Thr Glu Ile
      50          55          60
Gly Val Leu Ala Lys Ala Phe Ile Asp Gln Gly Lys Leu Ile Pro Asp
      65          70          75          80
Asp Val Met Thr Arg Leu Ala Leu His Glu Leu Lys Asn Leu Thr Gln
      85          90          95
Tyr Ser Trp Leu Leu Asp Gly Phe Pro Arg Thr Leu Pro Gln Ala Glu
      100          105          110
Ala Leu Asp Arg Ala Tyr Gln Ile Asp Thr Val Ile Asn Leu Asn Val
      115          120          125
Pro Phe Glu Val Ile Lys Gln Arg Leu Thr Ala Arg Trp Ile His Pro
      130          135          140
Ala Ser Gly Arg Val Tyr Asn Ile Glu Phe Asn Pro Pro Lys Thr Val
      145          150          155          160
Gly Ile Asp Asp Leu Thr Gly Glu Pro Leu Ile Gln Arg Glu Asp Asp
      165          170          175
Lys Pro Glu Thr Val Ile Lys Arg Leu Lys Ala Tyr Glu Asp Gln Thr
      180          185          190
Lys Pro Val Leu Glu Tyr Tyr Gln Lys Lys Gly Val Leu Glu Thr Phe
      195          200          205
Ser Gly Thr Glu Thr Asn Lys Ile Trp Pro Tyr Val Tyr Ala Phe Leu
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Val Val Val Ala Ile Val Gly Leu Tyr Arg Thr Gly Lys Ser Tyr Leu
          50          55          60
Met Asn Lys Leu Ala Gly Lys Asn Lys Gly Phe Ser Leu Gly Ser Thr
          65          70          75          80
Val Lys Ser His Thr Lys Gly Ile Trp Met Trp Cys Val Pro His Pro
          85          90          95
Lys Lys Pro Glu His Thr Leu Val Leu Leu Asp Thr Glu Gly Leu Gly
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          115          120          125
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Arg Ile Arg Ser Lys Ser Ser Pro Asp Glu Asn Glu Asn Glu Asp Ser
          165          170          175
Ala Asp Phe Val Ser Phe Phe Pro Asp Phe Val Trp Thr Leu Arg Asp
          180          185          190
Phe Ser Leu Asp Leu Glu Ala Asp Gly Gln Pro Leu Thr Pro Asp Glu
          195          200          205
Tyr Leu Glu Tyr Ser Leu Lys Leu Thr Gln Gly Thr Ser Gln Lys Asp
          210          215          220
Lys Asn Phe Asn Leu Pro Arg Leu Cys Ile Arg Lys Phe Phe Pro Lys
          225          230          235          240
Lys Lys Cys Phe Val Phe Asp Leu Pro Ile His Arg Arg Lys Leu Ala
          245          250          255
Gln Leu Glu Lys Leu Gln Asp Glu Glu Leu Asp Pro Glu Phe Val Gln
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Gln Val Ala Asp Phe Cys Ser Tyr Ile Phe Ser Asn Ser Lys Thr Lys
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Thr Leu Ser Gly Gly Ile Lys Val Asn Gly Pro Arg Leu Glu Ser Leu
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Val Leu Thr Tyr Ile Asn Ala Ile Ser Arg Gly Asp Leu Pro Cys Met
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Glu Asn Ala Val Leu Ala Leu Ala Gln Ile Glu Asn Ser Ala Ala Val
          325          330          335
Gln Lys Ala Ile Ala His Tyr Asp Gln Gln Met Gly Gln Lys Val Gln
          340          345          350
Leu Pro Ala Glu Thr Leu Gln Glu Leu Leu Asp Leu His Arg Val Ser
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Glu Arg Glu Ala Thr Glu Val Tyr Met Lys Asn Ser Phe Lys Asp Val
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Asp His Leu Phe Gln Lys Lys Leu Ala Ala Gln Leu Asp Lys Lys Arg
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Asp Asp Phe Cys Lys Gln Asn Gln Glu Ala Ser Ser Asp Arg Cys Ser
          405          410          415
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          420          425          430
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Gln Asp Leu Glu Lys Lys Tyr Tyr Glu Glu Pro Arg Lys Gly Ile Gln
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 Ile Glu Val Glu Cys Val Lys Ala Glu Ser Ala Gln Ala Ser Ala Lys
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 Met Val Glu Glu Met Gln Ile Lys Tyr Gln Gln Met Met Glu Glu Lys
 515 520 525
 Glu Lys Ser Tyr Gln Glu His Val Lys Gln Leu Thr Glu Lys Met Glu
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 Arg Glu Arg Ala Gln Leu Leu Glu Glu Gln Glu Lys Thr Leu Thr Ser
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 Lys Leu Gln Glu Gln Ala Arg Val Leu Lys Glu Arg Cys Gln Gly Glu
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 Leu Ala Arg Ala Ser Ala Pro Leu Leu Arg Val Pro Leu Ser Asp Ser
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 65 70 75 80
 Pro Ser Phe Glu Asp Val Ser Ile Pro Glu Lys Pro Lys Leu Arg Phe
 85 90 95
 Ile Glu Arg Ala Pro Leu Val Pro Lys Val Arg Arg Glu Pro Lys Asn
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 Leu Ser Asp Ile Arg Gly Pro Ser Thr Glu Ala Thr Glu Phe Thr Glu
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 Gly Asn Phe Ala Ile Leu Ala Leu Gly Gly Gly Tyr Leu His Trp Gly
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 His Phe Glu Met Met Arg Leu Thr Ile Asn Arg Ser Met Asp Pro Lys
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 Asn Met Phe Ala Ile Trp Arg Val Pro Ala Pro Phe Lys Pro Ile Thr
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 Arg Lys Ser Val Gly His Arg Met Gly Gly Gly Lys Gly Ala Ile Asp
 180 185 190
 His Tyr Val Thr Pro Val Lys Ala Gly Arg Leu Val Val Glu Met Gly
 195 200 205
 Gly Arg Cys Glu Phe Glu Glu Val Gln Gly Phe Leu Asp Gln Val Ala
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 His Lys Leu Pro Phe Ala Ala Lys Ala Val Ser Arg Gly Thr Leu Glu
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 Lys Met Arg Lys Asp Gln Glu Glu Arg Glu Arg Asn Asn Gln Asn Pro
 245 250 255
 Trp Thr Phe Glu Arg Ile Ala Thr Ala Asn Met Leu Gly Ile Arg Lys
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Arg Gly Gly Thr Arg Glu Ile Gly Ser Ala Leu Thr Arg Met Cys Met
65 70 75 80
Arg His Arg Ser Ile Glu Ala Lys Leu Arg Gln Phe Ser Ser Ala Leu
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Ile Asp Cys Leu Ile Asn Pro Leu Gln Glu Gln Met Glu Glu Trp Lys
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Lys Val Ala Asn Gln Leu Asp Lys Asp His Ala Lys Glu Tyr Lys Lys
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Ala Arg Gln Glu Ile Lys Lys Lys Ser Ser Asp Thr Leu Lys Leu Gln
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Lys Lys Ala Lys Lys Gly Arg Gly Asp Ile Gln Pro Gln Leu Asp Ser
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Ala Leu Gln Asp Val Asn Asp Lys Tyr Leu Leu Leu Glu Glu Thr Glu
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Lys Gln Ala Val Arg Lys Ala Leu Ile Glu Glu Arg Gly Arg Phe Cys
180 185 190
Thr Phe Ile Ser Met Leu Arg Pro Val Ile Glu Glu Glu Ile Ser Met
195 200 205
Leu Gly Glu Ile Thr His Leu Gln Thr Ile Ser Glu Asp Leu Lys Ser
210 215 220
Leu Thr Met Asp Pro His Lys Leu Pro Ser Ser Ser Glu Gln Val Ile
225 230 235 240
Leu Asp Leu Lys Gly Ser Asp Tyr Ser Trp Ser Tyr Gln Thr Pro Pro
245 250 255
Ser Ser Pro Ser Thr Thr Met Ser Arg Lys Ser Ser Val Cys Ser Ser
260 265 270
Leu Asn Ser Val Asn Ser Ser Asp Ser Arg Ser Ser Gly Ser His Ser
275 280 285
His Ser Pro Ser Ser His Tyr Arg Tyr Arg Ser Ser Asn Leu Ala Gln
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Gln Ala Pro Val Arg Leu Ser Ser Val Ser Ser His Asp Ser Gly Phe
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Ile Ser Gln Asp Ala Phe Gln Ser Lys Ser Pro Ser Pro Met Pro Pro
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 35 40 45
 Ser Val Ile Leu Arg Gly Thr Val Asp Asp Arg Leu Asn Trp Ala Phe
 50 55 60
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 65 70 75 80
 Leu Asp Ile Met Lys Ser Ile Tyr Asp Met Met Gly Lys Tyr Thr Tyr
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 Pro Ala Leu Arg Glu Glu Ala Pro Arg Glu His Val Glu Ser Phe Phe
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 Gln Lys Met Asp Arg Asn Lys Asp Gly Val Val Thr Ile Glu Glu Phe
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 Phe Asp Asn Val Ile
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Filed on 3 February 2000 (03.02.2000)
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Filed on 27 April 2000 (27.04.2000)

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(81) Designated States (national): AE, AG, AL, AM, AT, AU,
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HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,
NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
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patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,
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(54) Title: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES

(57) Abstract: The present invention provides novel nucleic acids, novel polypeptide sequences encoded by these nucleic acids and uses thereof.

WO 01/57188 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/03800

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C07H 21/04; C07K 5/00; A61K 39/395; C12Q 1/68

US CL : 536/23.1; 530/300; 424/130.1; 435/6

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 536/23.1; 530/300; 424/130.1; 435/6

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

STN, medline

search terms: EST, expressed sequence tags

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	VOLLRATH, D. et al. The Human Y Chromosome: A 43-Interval Map Based on Naturally Occurring Deletions. Science. October 1992. Vol 258. pages 52-59, see whole document.	1-28

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earliest document published on or after the international filing date	"Y"	document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"A"	document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

30 SEPTEMBER 2001

Date of mailing of the international search report

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